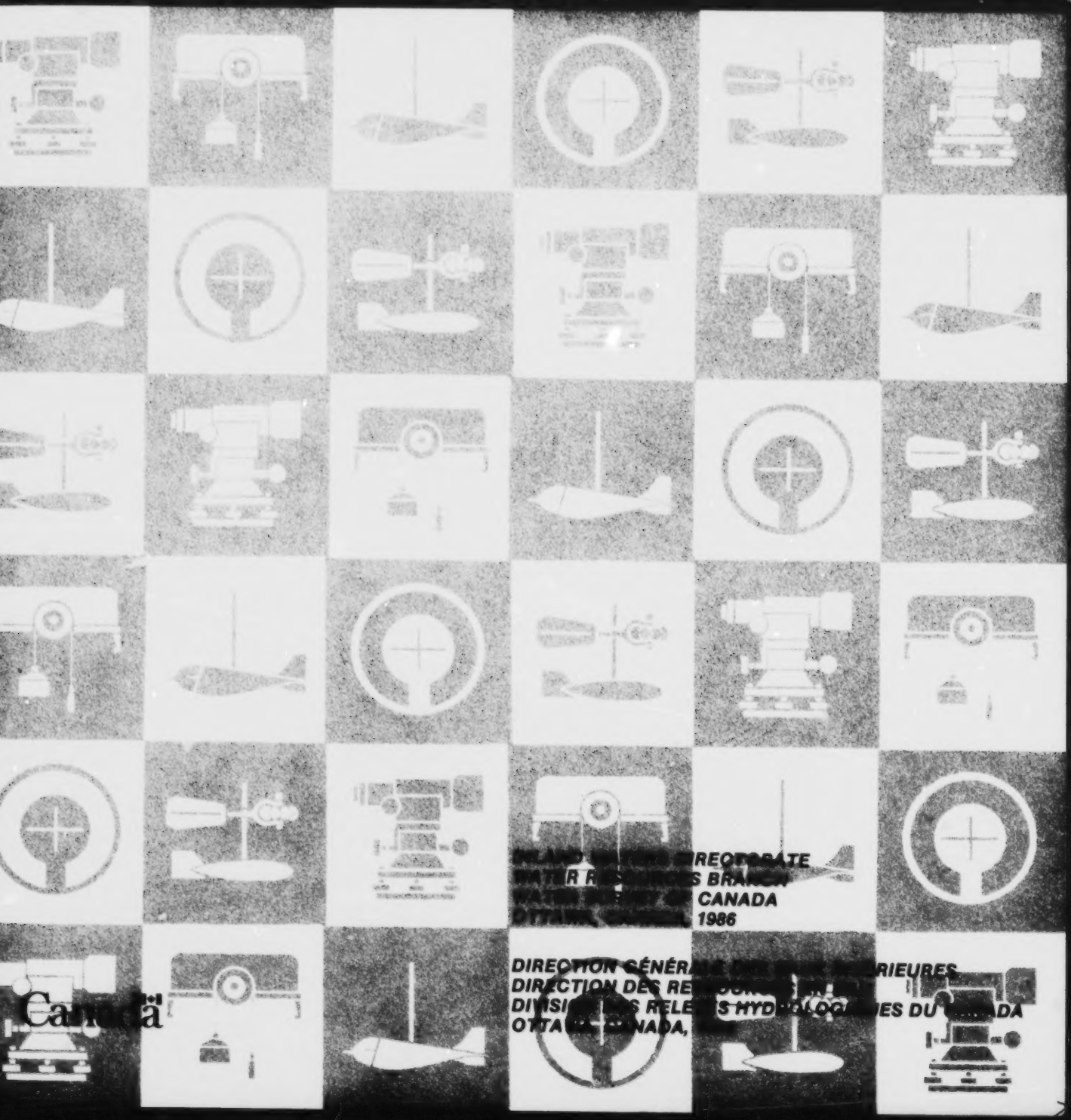
Sediment Data

Atlantic Provinces

Données sur les sédiments

Provinces de l'Atlantique

1984



INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
CANADA
1986

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES HYDRIQUES
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA

Canada

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1984

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1986

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1986

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PREFACE

This publication was prepared by personnel of the Sediment Survey Section, Water Survey of Canada Division, under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Dartmouth, Nova Scotia.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

Le groupe d'étude des sédiments de la Division des relevés hydrologiques du Canada, sous l'autorité du directeur des Ressources en eau du ministère de l'Environnement, à Ottawa, a préparé la présente publication.

Le chef régional de la Direction des ressources en eau, à Dartmouth (Nouvelle-Écosse), a supervisé la collecte et la compilation des données de base.

Nous remercions vivement les organismes provinciaux, ou autres, pour leur collaboration.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1984 calendar year, the results of the sediment survey investigations conducted in Newfoundland and Labrador, New Brunswick, Nova Scotia and Prince Edward Island by the Water Survey of Canada.

Data on the character and quantity of fluvial sediments provided by sediment survey investigations are intended for use in studies of water quality, environmental impacts, river processes and behaviour, and engineering design.

General introductory information on the sediment survey is included in this publication. Similar information for the associated hydrometric survey is given in the regular publications containing surface water data.

Details on individual stations and related records, as well as recent data that have not yet been published, may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
4th Floor, Queen Square,
45 Alderney Drive,
Dartmouth, Nova Scotia.
B2Y 2N6

or to the Director, Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0E7.

INTRODUCTION

Dans la présente publication de la Direction des ressources en eau du ministère de l'Environnement, on trouvera les résultats des études des sédiments effectuées dans les cours d'eau de Terre-Neuve et du Labrador, du Nouveau-Brunswick, de la Nouvelle-Écosse et de l'Île-du-Prince-Édouard par la Division des relevés hydrologiques du Canada au cours de l'année civile 1984.

Les données recueillies sur la nature et l'importance de la charge solide dans les cours d'eau doivent servir aux études portant sur la qualité des eaux, les incidences environnementales, les processus fluviaux, le comportement des cours d'eau et la conception de projets.

La presente publication contient des renseignements généraux préliminaires sur les études des sédiments. Des renseignements semblables sur les études hydrométriques connexes sont contenus dans les publications régulières présentant des données sur les eaux de surface.

On peut obtenir des renseignements supplémentaires sur les stations et les relevés, ainsi que des données récentes non encore publiées, en s'adressant au:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
Édifice Queen Square, 4e étage
45, prom. Alderney
Dartmouth (Nouvelle-Écosse)
B2Y 2N6

ou au directeur des Ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0E7.

SCOPE OF PUBLICATION

Descriptive information about sediment stations is given. This refers to the Location, Latitude and Longitude, Drainage Area and whether the flow is Natural Flow or Regulated Flow (the year that regulation began is given, if known), Type of Gauge and the Total Suspended Sediment Load in Tonnes for the Period of Record is also included. International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions at the sediment station that could effect the data results are explained under "Remarks".

This publication contains data on streamflow, instantaneous suspended sediment concentration; daily mean suspended sediment concentration; daily suspended sediment loads; dissolved solids concentration; load summary; particle-size distribution of suspended sediment in percent sand, silt and clay; bed load and bed material; water temperature when samples were collected; type of sampler and the single sampling vertical location.

A historical sediment data summary includes such information as Sampled Concentration Maximum and Minimum; Suspended Sediment Load Maximum Daily and the Total for Period. The Period of Record and the Type of Operation for each year of data are also given. A Summary for the Months of record gives the Period of Record Mean, the Mean for Period of Record and the Standard Error of Mean as a percent.

ORGANIZATION AND HISTORY OF SEDIMENT SURVEYS IN CANADA

In Canada, investigations of sediment transported by streams were first undertaken by individual organizations or agencies in 1948, to meet the needs of federal and provincial agencies for assessment of particular projects. Although the investigations were extended to meet expanding needs after 1948, it was not until 1961 that a systematic survey was undertaken by the Water Resources Branch.

The sediment survey program has the following objectives:

(1) Collection and provision of data related to sediment transport in Canadian rivers for applications in water resource engineering, water quality and environmental studies.

(2) Provision of information and advice related to sediment transport.

(3) Assessment, improvement and standardization of equipment and techniques used in Canada's sediment survey program.

PORTÉE DE LA PUBLICATION

Des données descriptives sont présentées sur les stations d'étude des sédiments. Elles concernent leur emplacement, leurs latitude et longitude, leur bassin versant, la nature de débit (naturel ou régularisé, avec indication, le cas échéant, de l'année où la régularisation a commencé, si elle est connue), le type d'instrument de mesure employé et le débit total des sédiments en suspension (en tonnes) pour la période de relevé. Les stations internationales de jaugeage sont indiquées, ainsi que le nom des organismes qui fournissent les données. Des explications concernant des conditions exceptionnelles qui ont pu influer sur les résultats sont présentées dans la partie «Remarques».

Cette publication renferme des données sur le débit des cours d'eau, les concentrations instantanées de sédiments en suspension, les concentrations journalières moyennes de sédiments en suspension, les débits journaliers de sédiments en suspension, les concentrations de matières dissoutes, les débits solides totaux (résumés), la granulométrie des sédiments en suspension exprimée en pourcentage de sable, de limon et d'argile, le charriage et les matériaux du lit, la température de l'eau au moment de l'échantillonnage, le type d'échantillonneur employé et l'emplacement des verticales de prélèvement d'échantillons uniques.

Un résumé des données historiques sur les sédiments est inclus. On y trouve divers renseignements comme les concentrations maximale et minimale mesurées, le débit journalier maximal des sédiments en suspension et le total pour la période. La période de relevé et le type d'exploitation des stations sont indiqués pour chaque année. Dans un résumé pour les mois de relevé, on donne la moyenne pour chaque période et pour l'ensemble des périodes de relevé ainsi que l'erreur-type de la moyenne, en pourcentage.

ORGANISATION ET HISTORIQUE DES ÉTUDES DES SÉDIMENTS AU CANADA

Au Canada, les études dans ce domaine ont débuté en 1948 en réponse aux besoins exprimés par certains organismes fédéraux et provinciaux pour l'évaluation de projets donnés et étaient le fait d'organismes privés. Bien que les études se soient poursuivies après 1948 pour satisfaire aux besoins accrus, ce n'est qu'en 1961 que la Direction des ressources en eau les a entreprises de façon systématique.

Les buts de ces études sont de:

(1) réunir et produire des données sur les transports solides dans les cours d'eau canadiens, données dont on peut avoir besoin pour des études concernant l'environnement, la qualité des eaux et la conception de projets portant sur les ressources en eau.

(2) produire des informations concernant les transports solides.

(3) évaluer, améliorer et uniformiser le matériel et les techniques employés dans le programme d'étude des sédiments au Canada.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Sediment data have been published in a variety of formats since the beginning of the Sediment Survey Program.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis le début du programme d'étude des sédiments, la présentation des données a varié.

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments – rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

COLLECTION AND PROCESSING OF BASIC DATA

1. *Equipment and Instrumentation*

The sediment survey program of the Water Resources Branch is conducted in cross sections on rivers selected specifically for the sediment survey or for the hydrometric survey. Certain cross sections are located at traffic bridges, while others are equipped with cableways, or automatic pump samplers.

The following sediment samplers have been used in the sediment survey program:

(a) Depth-integrating suspended sediment wading-type hand sampler, USDH-48, used on small streams or during winter periods.

(b) Depth-integrating suspended sediment sampler, USDH-59, used as a handline suspension for small and medium size streams.

(c) Depth-integrating suspended sediment samplers, USD-49, and USD-74, used on a reel suspension for medium and large streams whose depths are less than five metres.

(d) Point-integrating suspended sediment samplers, USP-61, USP-61-A1, USP-63, and USP-72, used for point-integrating sampling, or depth-integrating sampling if the depth is over five metres, or in a cross section with a very high velocity.

(e) Automatic pump sampler is an automatic pumping system permitting unattended collecting and bottling of individual water samples pumped from a fixed point in a stream. This sampler is normally installed at isolated locations where otherwise no data would be available during ice break-up or peak periods.

(f) Bed material sampler, USBM-54, used on large or deep streams or on those streams with hard-packed streambeds.

(g) Bed material sampler USBMH-60, used on some large or deep streams or on those streams with soft-packed streambeds.

(h) Bed material sampler USBMH-53 used on some small or shallow streams.

(i) Lane bed material sampler, a drag-type sampler used on small streams or those with soft streambeds.

2. *Hydrometric Surveys*

The hydrometric survey includes the standard procedures for observations of water levels, streamflow measurements, water surface slope determinations if required, and observations of water temperature. The streamflow measurements are made in conjunction with the sediment load measurements and conform to the accepted standards of the regular hydrometric survey.

3. *Sediment Sampling Program*

The following is a summary of the elements associated with the Sediment Sampling Program:

(a) Periodic measurement of suspended sediment load by the

COLLECTE ET TRAITEMENT DES DONNÉES DE BASE

1. *Matériel*

L'étude des sédiments réalisée par la Direction des ressources en eau porte sur des sections transversales de cours d'eau choisis spécialement à cette fin ou pour les relevés hydrométriques. Certaines sections sont situées sous un pont, d'autres sont accessibles par téléphérique, ou sont étudiées à l'aide d'un échantillonneur sous pression.

On a utilisé les échantillonneurs suivants:

(a) L'échantillonneur intégrateur selon la profondeur, type simple, USDH-48, employé dans les cours d'eau peu profonds ou en hiver;

(b) L'échantillonneur intégrateur selon la profondeur USDH-59, utilisé comme une ligne dans les cours d'eau petits et moyens;

(c) Les échantillonneurs intégrateurs selon la profondeur USD-49 et USD-74 fixés au bout d'une corde s'enroulant autour d'un moulinet et employés dans les cours d'eau gros ou moyens dont la profondeur est inférieure à cinq mètres;

(d) Les échantillonneurs intégrateurs USP-61, USP-61-A1, USP-63 et USP-72, employés ponctuellement ou sur toute la verticale, et utilisés lorsque la profondeur est supérieure à cinq mètres ou dans les sections transversales qui connaissent un débit très élevé;

(e) Un échantillonneur automatique permettant le prélèvement en bouteilles, sans surveillance, d'échantillons uniques d'eau obtenus à l'aide d'une pompe en un point précis d'un cours d'eau; il est ordinairement installé dans un endroit isolé où aucune donnée ne pourrait être obtenue autrement au cours de la débâcle ou des périodes de débit de pointe;

(f) L'échantillonneur USBM-54 employé pour le prélèvement d'échantillons des matériaux du lit dans les cours d'eau importants ou profonds ou dans les cours d'eau dont le fond est dur;

(g) L'échantillonneur USBMH-60 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau importants ou profonds, ou dans les cours d'eau dont le fond est meuble;

(h) L'échantillonneur USBMH-53 employé pour le prélèvement d'échantillons des matériaux du lit dans certains cours d'eau petits ou peu profonds;

(i) La drague employée pour le prélèvement d'échantillons des matériaux du lit dans de petits cours d'eau ou dans des cours d'eau dont le fond est meuble.

2. *Relevés hydrométriques*

Le relevé hydrométrique comprend, entre autres, l'observation de la hauteur des eaux, la mesure du débit de l'eau, la détermination de la pente de la ligne d'eau, si nécessaire, ainsi que l'observation de la température de l'eau. Les mesures du débit de l'eau et du débit des sédiments se font conjointement, suivant les méthodes acceptées.

3. *Échantillonnage des sédiments des cours d'eau*

L'échantillonnage comporte, en gros, les éléments suivants:

(a) La mesure périodique du débit des sédiments en suspension par la méthode d'intégration sur toute la profondeur

depth-integrating method for determining the average suspended sediment concentration in the cross section.

(b) Single suspended sediment samples at a selected vertical for determining the sediment concentration for the days when suspended sediment load measurements are not taken.

(c) Limited measurement of suspended sediment load by the point-integrating method for checking depth-integrated measurements and for determining particle-size distribution in the cross section.

(d) Sampling of bed material for determining particle-size distribution.

(e) Periodic measurement of bed load.

The following is a brief explanation of the elements listed above:

(a) *Suspended Sediment Load by Depth-Integrating Method*: Measurements are made by the depth-integrating method to determine the suspended sediment load carried in the entire cross section of a stream, the average suspended sediment concentration in the cross section, and the size distribution of the sediment particles. It is known that the concentration of suspended sediment tends to increase from the water surface to the streambed and could vary from streambank to streambank.

When making suspended sediment equal-discharge-increment (EDI) measurements, the stream cross section is divided into at least five equal-flow portions and a representative suspended sediment sample is collected from each portion. For each part of the cross section, the suspended sediment load (r) may then be computed by multiplying the flow (q) by the suspended sediment concentration (c):

$$r = q\ c$$

The suspended sediment load (R) for the cross section may be computed by adding the sediment loads for the five equal-flow portions:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

The depth-integrating method of sampling is used to measure the suspended sediment concentration. This method is based on the premise that the sampler fills at a rate proportional to the velocity of the approaching flow, and that by traversing the depth of a stream at a uniform speed, the sampler will receive a portion of water sediment mixture at every point in the vertical.

(b) *Single Suspended Sediment Samples at a Selected Vertical*: Single suspended sediment samples, consisting of two bottles each, are collected routinely using the depth or point-integrating samplers at a permanently fixed vertical in a cross section. During periods of very heavy sediment concentration, two or three single sediment samples may be taken per day, while during periods of low concentration, one single sediment sample may only be taken every few days. During extremely low flow periods, the sampling may be limited to one single sample in several weeks or months.

(c) *Suspended Sediment Load by Point-Integrating Method*: A limited number of suspended sediment load measurements are made by the point-integrating method. These measurements are included in the program (a) to check by comparison the "measured" sediment loads obtained by the depth-integrating method with the suspended sediment loads by the point-integrating method and (b) to obtain samples from which to determine particle-size distribution

pour la détermination de la concentration moyenne dans une section transversale;

(b) Le prélèvement d'échantillons uniques des sédiments en suspension selon une verticale choisie, afin de déterminer la concentration des sédiments les journées où le débit des sédiments en suspension n'est pas mesuré;

(c) Un nombre restreint de mesures du débit des sédiments en suspension avec intégration en un point précis d'un cours d'eau, afin de vérifier les résultats des mesures avec intégration selon la profondeur et afin de déterminer la granulométrie des particules de sédiments dans une section transversale d'un cours d'eau;

(d) L'échantillonnage des matériaux du lit afin d'en déterminer la granulométrie;

(e) La mesure périodique du charriage.

Voici une brève description des éléments susmentionnés.

(a) *Mesure du débit des sédiments en suspension par intégration selon la profondeur*: La méthode permet de déterminer le débit des sédiments en suspension traversant toute une section transversale d'un cours d'eau, la concentration moyenne des sédiments en suspension dans la section transversale et la granulométrie des sédiments en suspension. C'est un fait connu que la concentration des sédiments en suspension augmente généralement avec la profondeur et qu'elle peut varier d'une rive à l'autre d'un cours d'eau.

Avec la méthode d'incréments de débits égaux (IDE), la mesure du débit des sédiments en suspension se fait en divisant une section transversale d'un cours d'eau en au moins cinq tranches où le débit est égal et en prélevant un échantillon représentatif dans chacune d'elles. Le débit des sédiments en suspension (r) pour chaque tranche se calcule en multipliant le débit (q) par la concentration des sédiments en suspension (c):

$$r = q\ c$$

Le débit des sédiments en suspension (R) pour la section transversale est la somme des débits des sédiments des cinq tranches:

$$R = r\ n = q_1c_1 + q_2c_2 + \ldots + q_nc_n$$

La méthode par intégration sur toute la profondeur est employée pour mesurer la concentration des sédiments en suspension. Elle suppose que l'échantillonneur se remplit à un rythme proportionnel au débit de l'eau et qu'en étant déplacé à une vitesse uniforme sur toute la verticale, il reçoit une partie du mélange eau-sédiments à tous les points de celle-ci.

(b) *Prélèvement d'échantillons uniques de sédiments en suspension sur une verticale choisie*: De tels échantillons, constitués chacun de deux bouteilles, sont prélevés régulièrement à l'aide d'appareils intégrateurs, selon la profondeur ou ponctuels, sur une verticale permanente d'une section transversale. Lorsque la concentration des sédiments est très forte, deux ou trois échantillonnages peuvent être effectués chaque jour, alors qu'un seul échantillon peut être prélevé à quelques jours d'intervalle lorsqu'elle est faible. Au cours des périodes où le débit est extrêmement faible, l'échantillonnage peut être limité à un échantillon toutes les quelques semaine ou tous les quelques mois.

(c) *Mesure du débit des sédiments en suspension par la méthode ponctuelle*: Un nombre limité de mesures du débit des sédiments en suspension sont faites avec cette méthode. On y a recours a) pour vérifier les valeurs du débit mesurées au moyen de la méthode précédente et b) pour obtenir des échantillons en vue de déterminer la granulométrie des sédiments en divers points de la

at different points in the cross section. The point-integrating sediment loads are computed by graphical methods.

The relationship between the suspended sediment concentration of the single vertical samples and the average concentration in the cross section determined from the suspended sediment load measurements is established for some stations. Using this relationship, the sediment concentrations of the single vertical samples are adjusted to reflect the average suspended sediment concentration in the cross section. These average sediment concentrations in the cross sections are plotted, and a smooth curve is drawn through the points to obtain a concentration graph. This graph represents the average suspended sediment concentration for the period of record. The daily mean concentrations are determined by automated procedures using a digitizer interfaced with a Digital minicomputer.

The daily suspended sediment loads are computed on the basis of stream discharges and the collected suspended sediment concentrations. The daily suspended sediment loads are expressed in tonnes per day and are obtained by multiplying the daily mean sediment concentration (mg/L), by the daily mean discharge (m^3/s), and the conversion factor, 0.0864.

(d) *Bed Material Sampling*: In a cross section, bed material samples are usually taken in the same sampling verticals as the suspended sediment samples. Often, additional bed material samples are collected at the water edge, the extreme water level or at other points in the cross section. The total number of bed material samples taken in a cross section usually varies between five and nine.

(e) *Bed Load Measurement*: There are several methods available for measurement of bed load (volumetric method, measurement by samplers, method of tracers, method of constricted cross section, study of sound waves, etc.). The measurement methods should be selected in accordance with river regime.

4. *Total Sediment Load*

Sediment transport may be divided into two categories: sediment maintained in suspension in the stream (suspended load), and sediment being carried along the streambed (bed load). To measure the total sediment load, each of these must be measured separately and then totalled. The total sediment load was not computed for this publication.

5. *Sediment Survey Laboratories*

The Water Resources Branch maintain sediment survey laboratories in New Westminster, British Columbia; Regina, Saskatchewan; Guelph, Ontario; and Moncton, New Brunswick. The laboratories are equipped to perform the following analyses:

(a) determination of sediment concentration by (1) filtration method, (2) evaporation method and (3) determination of total dissolved solids by evaporation method.
(b) particle-size distribution analysis by (1) bottom withdrawal tube method, (2) sieving and (3) hydrometer method.

Determination of the sediment concentration by the evaporation method is carried out by evaporating the water from the settled sediment sample, with the results being corrected for dissolved solids. The quantity of dissolved solids is determined by evaporating a portion of the decanted water of a sample. In the filtration method, the suspended sediment concentration of water samples is determined by utilizing Gooch crucibles with a Reeve Angel 934AH filter and a Millipore AP20 prefilter and a vacuum system.

section transversale. Cette méthode fait appel à des graphiques pour le calcul du débit des sédiments.

Le rapport entre la concentration des sédiments en suspension dans les échantillons prélevés sur une seule verticale et la concentration moyenne dans la section transversale, telle que déterminée à partir des mesures du débit des sédiments en suspension, est établi pour quelques stations. Il permet de corriger les concentrations mesurées à une seule verticale de manière à donner la concentration moyenne dans la section transversale. Les concentrations moyennes ainsi déterminées sont reportées sur un graphique, et une courbe lisse passant par les points marqués est tracée. Le graphique obtenu représente la concentration moyenne des sédiments en suspension pour la période de relevé. Les concentrations moyennes quotidiennes sont déterminées automatiquement à l'aide d'un convertisseur analogique-numérique relié à un mini-ordinateur numérique.

Les valeurs journalières du débit des sédiments en suspension sont calculées à partir du débit du cours d'eau et des concentrations des sédiments en suspension recueillis. Elles sont exprimées en tonnes par jour. On les détermine en multipliant la concentration moyenne journalière des sédiments (mg/L) par le débit moyen journalier (m^3/s) et par un facteur de conversion approprié, 0.0864.

(d) *Échantillonnage des matériaux du lit*: Dans une section transversale, les échantillons des matériaux du lit sont ordinairement prélevés aux mêmes verticales que ceux des sédiments en suspension. Souvent, des échantillons supplémentaires sont pris près des rives, là où le niveau d'eau est extrême et à d'autres points de la section transversale. Leur nombre total pour une section donnée varie ordinairement entre cinq et neuf.

(e) *Mesure du charriage*: La mesure peut se faire par plusieurs méthodes (méthode volumétrique, mesure à l'aide d'échantillonneurs, méthode des traceurs, méthode de la section transversale rétrécie, étude des ondes sonores, etc.). Le choix se fondera sur la nature du régime du cours d'eau.

4. *Débit solide total*

Il y a deux catégories de sédiments: les sédiments maintenus en suspension au sein de l'eau (sédiments en suspension), et les sédiments charriés sur le lit d'un cours d'eau (charriage de fond). Les deux types de sédiments doivent être mesurés séparément et leurs valeurs additionnées si on veut mesurer le débit total des sédiments. Toutefois, on ne l'a pas calculé aux fins de la présente publication.

5. *Laboratoires d'analyse*

La Direction des ressources en eau possède des laboratoires d'analyse des sédiments à New Westminster (Colombie-Britannique), Regina (Saskatchewan), Guelph (Ontario) et Moncton (Nouveau-Brunswick). Les laboratoires disposent des appareils nécessaires pour effectuer les analyses suivantes:

(a) la détermination de la concentration des sédiments par (1) filtration, (2) évaporation, et (3) détermination des matières dissoutes totales par évaporation.
(b) l'analyse granulométrique (1) par extraction des sédiments déposés dans un tube, (2) par l'emploi de tamis et (3) par l'utilisation d'un hydromètre.

La méthode par évaporation consiste à faire évaporer l'eau d'un échantillon de sédiments décanté et à corriger les résultats pour tenir compte des matières dissoutes. La quantité de celles-ci est déterminée en faisant évaporer une partie de l'eau de l'échantillon décanté. Dans la méthode par filtration, on utilise sous vide des creusets de Gooch munis d'un filtre Reeve Angel 934AH et d'un préfiltre Millipore AP20.

Particle-size analysis was carried out for some suspended sediment samples having gross weights in the range of 0.15 to 5 g using the Bottom Withdrawal Tube method. The particle-size distribution of the Bottom Withdrawal Tube method ranges from 0.002 to 1.000 mm. The Sieve analysis method may be used for samples with a large amount of material coarser than 0.062 mm.

The particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)
Clay	0.000 24 – 0.004
Silt	0.004 – 0.062
Sand	0.062 – 2.0
Gravel	2.0 – 64.0

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analyzed in distilled water. Chemical dispersion is not used for native-water analysis.

6. *Accuracy and Reliability of Field Data and Computed Results*

The overall accuracy and degree of reliability of the sediment data is dependent upon many factors. Some of the more important of these are:

(a) accuracy and reliability of streamflow records;
(b) regime of the river;
(c) type of sampling equipment used to collect the suspended sediment samples;
(d) frequency of suspended sediment discharge measurements;
(e) frequency of individual sampling;
(f) quality of the relationship between the average suspended sediment concentration in the cross section and the concentration of the individual samples;
(g) frequency and method of bed material sampling;
(h) frequency and method of bed load measurements;
(i) accuracy and reliability of the laboratory analysis;
(j) selected methods of computation of the suspended sediment discharge;
(k) interpretation and extrapolation of sediment records.

An assessment of the quality of the records can be made by an examination of the occurrence of the symbols A, B, E on the daily mean discharge and the S on the daily mean concentration.

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those records obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

Une analyse granulométrique a été effectuée pour certains échantillons de sédiments en suspension ayant un poids brut dans l'intervalle de 0.15 à 5 g par la méthode de la burette (extraction des sédiments déposés, à divers intervalles). La distribution de la taille des particules déterminée par cette méthode varie de 0.002 à 1.000 mm. La méthode de tamisage peut être employée pour les échantillons ayant une forte quantité de particules de taille supérieure à 0.062 mm.

La classification granulométrique qui est utilisée dans la présente publication est conforme aux recommandations faites par l'*American Geophysical Union Subcommittee on Sediment Terminology*. La classification est la suivante:

Classification	Taille (mm)
Argile	0.000 24 – 0.004
Limon	0.004 – 0.062
Sable	0.062 – 2.0
Gravier	2.0 – 64.0

La répartition granulométrique qui est fournie dans cette publication, n'est pas obligatoirement représentative de toutes les particules qui sont transportées par un cours d'eau donné. La plupart des matières organiques sont extraites de l'échantillon qui est ensuite soumis à une dispersion mécanique et chimique avant d'être analysé dans de l'eau distillée. La dispersion chimique ne sert pas à l'analyse de l'eau naturelle.

6. *Exactitude des données et des résultats*

L'exactitude des données sur les sédiments dépend de nombreux facteurs. On peut citer, parmi les plus importants:

(a) l'exactitude des données sur les débits;
(b) le régime d'un cours d'eau;
(c) le type d'appareil d'échantillonnage utilisé pour prélever les échantillons de sédiments en suspension;
(d) la fréquence des mesures du débit des sédiments en suspension;
(e) la fréquence des échantillonnages isolés;
(f) la qualité du rapport entre la concentration moyenne des sédiments en suspension dans une section transversale et la concentration des échantillons isolés;
(g) la fréquence des échantillonnages des matériaux de fond et la méthode utilisée;
(h) la fréquence des mesures du charriage de fond et la méthode utilisée;
(i) l'exactitude des analyses de laboratoire;
(j) les méthodes de calcul du débit des sédiments en suspension;
(k) l'interprétation et l'extrapolation des données sur les sédiments.

La qualité des données peut être évaluée d'après la fréquence d'utilisation des symboles A, B, E, avec les données sur le débit journalier moyen, et S, avec celles sur la concentration journalière moyenne.

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas des petits cours d'eau ou des cours d'eau à crues très rapides.

METHOD OF TABULATION OF SEDIMENT DATA

For stations where the suspended sediment load was obtained, the following data are given where available:

1. The table of *Suspended Sediment Load* includes the daily mean discharge in cubic metres per second, the daily mean concentration in milligrams per litre, and the daily suspended sediment load in tonnes per day. The total monthly discharge and total monthly sediment load is also given for complete months of record.

   For stations where the sediment load in tonnes per day are produced for complete or partial years, the *Total Suspended Load* for the period is given in the descriptive information.

   For stations where only suspended sediment concentrations are obtained, the table of *Suspended Sediment Load* will not be given.

   Additional descriptive information about the sediment station is also given above the table of *Suspended Sediment Load* and will indicate the following, where applicable.

   Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

   Drainage area – refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station.

   Natural Flow or *Regulated Flow* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

   Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

   (a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.

   (b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.

   International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been

PRÉSENTATION DES TABLEAUX DE DONNÉES SUR LES SÉDIMENTS

Pour les stations de mesure du débit des sédiments en suspension, les données suivantes sont présentées, pour autant qu'elles sont disponibles:

1. Le tableau concernant le *débit des sédiments en suspension* (The table of Suspended Sediment Load) donne le débit journalier moyen de l'eau, en mètres cubes par seconde, la concentration journalière moyenne, en milligrammes par litre, et le débit journalier des sédiments en suspension, en tonnes par jour. Les mois où les données sont complètes, sont également indiqués les débits mensuels totaux de l'eau et des sédiments.

   Dans le cas des stations où le débit des sédiments, en tonnes par jour, est fourni pour une année complète ou une partie de l'année, le total pour la période est indiqué.

   Dans le cas des stations où seule la concentration des sédiments en suspension est obtenue, ce tableau est absent.

   Des renseignements descriptifs additionnels au sujet de la station sont également présentées au-dessus du tableau. On peut y apporter les précisions suivantes:

   Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à une bonne distance de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

   Superficie du bassin versant (Drainage area) – Désigne la zone délimitée par une ligne de faîte de sorte que l'écoulement de surface direct provenant des précipitations est entraîné par gravité vers le cours d'eau, en amont de la station.

   Débit naturel ou *régularisé* (Natural Flow ou Regulated Flow) – Un débit reconnu comme naturel est indiqué. Le débit de nombreux réseaux hydrographiques est modifié par une régularisation effectuée en amont. Dans certains cas, l'importance de cette régularisation n'est pas connue, et elle n'est donc pas indiquée. Cependant, quand on sait que la régularisation est d'une certaine importance, on l'indique, ainsi que l'année où elle a débuté (si elle est connue).

   Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau ou le débit d'un cours d'eau.

   (a) *Manuelle* (Manual) – Indique qu'un appareil non enregistreur est employé pour obtenir normalement une fois par jour les données sur le niveau et le débit du cours d'eau.
   (b) *Enregistreuse* (Recording) – Indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux qui est tracé sur un graphique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.

   Stations internationales de jaugeage (International Gauging Stations) – Dans les eaux contiguës aux frontières, on a

designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Contributed Data – if data were supplied in their entirety or partially by an outside agency, the name of this co-operating agency is given.

Remarks – contains a statement pertaining to the sediment sample collection.

2. The table of *Instantaneous Suspended Sediment Concentration* for depth-integrating samples gives the particle-size distributions, in Percent Finer, in millimetres for each sample collected, if available. The Date and Time of the sample collection; Water Temperature; Instantaneous Discharge, if not available the daily mean discharge should be given and indicated by a symbol; Single Sampling Vertical location; Dissolved Solids; Percent Sand, Silt and Clay; Type of Sampler used is also given where available.

   For the suspended sediment measurements, the date, time, water temperature at time of sampling, computed discharge for each sampling panel, concentration and the sampling vertical, coded with the symbol (M) to indicate a sampling vertical of a suspended sediment measurement are given.

3. The table of *Point Integrating Particle-size of Suspended Sediment* gives the particle-size distribution, in Percent Finer, in millimetres, for each sample collected in the measurement. The Date and Time of the sample collection; Instantaneous Discharge for each sampling vertical; Water Temperature; Sampling Vertical; Sample Depth; Concentration in milligrams per litre; Dissolved Solids, in milligrams per litre, and the Percent Sand, Silt and Clay are also given. The Type of Sampler used in the collection of the samples is indicated at the bottom of the table.

4. The table of *Bed Load Particle-size* gives the particle-size distribution, in Percent Finer, in millimetres, for each sample of bed load collected. The Date and Time of the sample collection; Instantaneous Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample are also given.

5. The table of *Bed Material Particle-size* gives the particle-size distribution, in Percent Finer, in millimetres, for each sample of bed material collected. The Date and Time of the sample collection; Instantaneous Discharge; Sampling Vertical and the Type of Sampler used in the collection of the sample are also given.

désigné certaines stations comme «internationales», et les données obtenues sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publications et dans les *United States Water Supply Papers* sont dues à des variantes dans les techniques de traitement automatique des données.

Données fournies (Contributed Data) – Lorsqu'un organisme extérieur a fourni toutes les données ou une partie des données, son nom est indiqué.

Remarques (Remarks) – Renseignements au sujet du prélèvement des échantillons de sédiments.

2. Le tableau des *concentrations instantanées de sédiments en suspension* (The table of Instantaneous Suspended Sediment Concentration) pour les échantillons obtenus par intégration selon la profondeur donne la granulométrie des sédiments, en pourcentage des particules de taille inférieure à une taille donnée, en millimètres, pour chaque échantillon recueilli, si elle est connue. Sont également indiqués la date et l'heure de prélèvement; la température de l'eau; son débit instantané (s'il n'est pas connu, le débit journalier moyen, avec symbole); l'emplacement de la verticale d'échantillonnage; la concentration des matières dissoutes; les pourcentages de sable, de limon et d'argile; le type d'échantillonneur employé, si connu.

   Pour les mesures des sédiments en suspension, la date, l'heure, la température de l'eau au moment de l'échantillonnage, le débit calculé pour chaque tranche de la section d'échantillonnage, la concentration et la verticale d'échantillonnage, avec le code M pour indiquer une verticale d'échantillonnage d'une mesure des sédiments en suspension, sont donnés.

3. Le tableau de la *granulométrie des échantillons ponctuels et intégrés des sédiments en suspension* (The table of Point Integrating Particle-size of Suspended Sediment) donne les pourcentages de particules de taille inférieure aux tailles indiquées, en millimètres, pour chaque échantillon prélevé pour la mesure. Sont également indiqués la date et l'heure de prélèvement de l'échantillon, le débit instantané pour chaque verticale d'échantillonnage, la température de l'eau, la verticale d'échantillonnage, la profondeur de l'échantillon, la concentration des sédiments, en milligrammes par litre, la concentration des matières dissoutes, en milligrammes par litre, et les pourcentages de sable, de limon et d'argile. Le type d'échantillonneur employé est indiqué au bas du tableau.

4. Le tableau de la *granulométrie des sédiments charriés* (The table of Bed Load Particle-size) donne le pourcentage des particules de taille inférieure aux tailles indiquées, en millimètres, pour chaque échantillon recueilli du charriage. Sont également indiqués la date et l'heure de prélèvement de l'échantillon, le débit instantané, la verticale d'échantillonnage et le type d'échantillonneur employé.

5. Le tableau de la *granulométrie des matériaux du lit* (The table of Bed Material Particle-size) donne le pourcentage des particules de taille inférieure aux tailles indiquées, en millimètres, pour chaque échantillon recueilli. Sont également indiqués la date et l'heure de prélèvement de l'échantillon, le débit instantané, la verticale d'échantillonnage et le type d'échantillonneur employé.

6. The table of *Historical Sediment Data Summary* gives the following, for the period of record, where applicable.

   (a) Period of Record
   (b) Type of Operation
   (c) Sampled Concentration
   (d) Suspended Sediment Load
   (e) Summary.

(a) The *Period of Record* gives the first and last month of record for the year, i.e. (APR-DEC) for April to December. If the *Period of Record* is incomplete this is indicated by an octothorpe (#).
(b) The *Type of Operation* shows *method of sampling* and the *operation schedule*, which are presented as two symbols i.e. M-S.

The first symbol is the *method of sampling* and could be one of the symbols (A), (B) or (M). The symbol (A) indicates that the method of sample collection was by an automatic sampler; (M) represents manual sampling. If samples during the year or season were collected by both automatic sampling and manual methods, this would be indicated by the symbol (B) for both.

The second symbol is the *operation schedule* which is represented by one of the symbols (C), (MS) or (S). The symbol (C) indicates that sediment loads are continuous for the entire year. The symbol (S) indicates that records are available only for partial year or seasonal. If records are available only for individual days of a year, this is indicated by the symbol (MS) for miscellaneous.

(c) The *Sampled Concentration* gives the maximum and minimum concentration, in milligrams per litre, and the date of collection for each year of record. The extreme recorded for the period of record is indicated by an asterisk (*).

(d) The *Suspended Sediment Load* gives the maximum daily load, in tonnes, and the date of occurrence. The extreme recorded is indicated by an asterisk (*). The Total for the Period gives the total load for the period or year, in tonnes. The extreme recorded is also indicated by an asterisk (*). A load which has been revised since the previous publication is marked with the symbol (R) for Revision.
(e) The *Summary* gives the *Mean Load* and the *Historical Mean Load* in tonnes.

The *Standard Error of the Mean* % is calculated using the following equation.

$$\frac{\sigma}{\bar{x} \times \sqrt{n}} \times 100\%$$

For stations with only instantaneous samples, this table will not include the *Suspended Sediment Load* or the statistical information in the *Summary*.

6. Le tableau du *sommaire chronologique des données sur les sédiments* (The table of Historical Sediment Data Summary) donne, pour la période pour laquelle les données sont disponibles, les renseignements suivants lorsque de telles données existent:

   (a) La période de relevé
   (b) Le type d'exploitation
   (c) Les concentrations mesurées
   (d) Le débit des sédiments en suspension
   (e) Le résumé.

(a) La *période de relevé* (Period of Record) donne le premier et le dernier mois des données au cours de l'année; ex.: (APR-DEC) pour avril à décembre. Le symbole # indique la *période de relevé* est incomplète.
(b) Sous le *type d'exploitation* (Type of Operation) on donne la *méthode d'échantillonnage* et le *calendrier d'exploitation*, qui sont présentés sous forme de deux symboles; ex.: M-S.

Le premier symbole correspond à la *méthode d'échantillonnage*; ce peut être un A, un B ou un M. Un A indique que l'échantillonnage a été fait au moyen d'un appareil automatique; un M, qu'il était manuel; et un B, que durant l'année ou la saison des méthodes manuelles et automatiques ont été employées.

Le deuxième symbole code pour le *calendrier d'exploitation*; ce peut être un C, un MS ou un S. Un C indique que les mesures du débit des sédiments se font pendant toute l'année; un S, que les données ne sont disponibles que pour une partie de l'année ou sont saisonnières; un MS, que les données ne sont disponibles que pour certains jours de l'année.

(c) Pour les *concentrations mesurées* (Sampled Concentration), on donne la concentration maximale et la concentration minimale, en milligrammes par litre, et leur date d'obtention pour chaque année de relevé. La valeur extrême enregistrée est indiquée par un astérisque (*).
(d) Sous le *débit des sédiments en suspension* (Suspended Sediment Load), on donne le débit journalier maximal, en tonnes, et sa date de mesure. Le débit extrême enregistré est indiqué par un astérisque (*). Le débit total pour la période ou pour l'année est indiqué. La valeur extrême est également signalée par un astérisque (*). La lettre R indique qu'une valeur du débit a été révisée depuis la dernière publication.
(e) Le *résumé* donne le *débit moyen* et le *débit moyen chronologique*, en tonnes.

L'*erreur-type de la moyenne* (Standard Error of the Mean), en pourcentage, est calculée à l'aide de l'équation suivante:

$$\frac{\sigma}{\bar{x} \times \sqrt{n}} \times 100\%$$

Dans le cas des stations ne prélevant que des échantillons instantanés, ce tableau ne donnera pas le *débit des sédiments en suspension* ni les données statistiques du *résumé*.

DEFINITION OF TERMS

The following definitions are given to clarify the terms used in this publication:

Automatic pump sample is an individual water-sediment mixture pumped from a fixed point in a stream.

Bed load is that material moving in almost continuous contact with the streambed, being rolled or pushed along the bottom by the force of the water.

Bed material is the sediment mixture of which the streambed is composed.

Daily load is the suspended sediment load expressed in tonnes for a particular day. The daily load is obtained by multiplying the daily mean sediment concentration (mg/L) by the daily mean discharge (m^3/s) and the conversion factor, 0.0864.

Daily mean concentration is a time-weighted mean value and is computed from a manually constructed concentration curve. The mean concentration value may be determined arithmetically or graphically. The arithmetic mean is obtained either by (1) selecting values from the concentration graph that represents uniform intervals of time and taking the arithmetic average or by (2) selecting values from the graph that represent unequal intervals of time and weighing these values by the time intervals represented by the concentrations. For graphical explanation refer to *Office Procedures for Sediment Data Computations* and for the automated graphical explanation refer to *Automated Hydrometric Computation Procedures*.

Depth-integrated sediment sample is a suspended sediment sample collected at a single vertical in a cross section in a sampler moving vertically at a constant transit rate and represents an average sample for that part of the depth ranging from the water surface to about nine centimetres above the streambed.

Instantaneous suspended sediment sample is a sample collected at a fixed vertical in a river cross section.

Measured suspended sediment discharge is the suspended sediment discharge that can be computed from stream discharge and the concentration of sediment determined from depth-integrated sediment samples.

Particle-size analysis is the process of determining the size distribution of particles in a sediment sample.

Point-integrated sediment sample is a sample of the water-sediment mixture taken over a specified period of time at a fixed point and depth in a river cross section.

DÉFINITION DES TERMES

Les définitions suivantes sont présentées afin de faciliter la compréhension des termes utilisés dans la présente publication:

Échantillonnage automatique à l'aide d'une pompe (Automatic pump sample): Prélèvement d'un mélange de sédiments et d'eau au moyen d'une pompe fonctionnant automatiquement, en un point précis d'un cours d'eau.

Charriage (Bed load): Matières roulées ou poussées sur le fond sous l'action de l'eau, mais restant en contact presque permanent avec le fond.

Matériau du lit (Bed material): Mélange de sédiments composant le lit d'un cours d'eau.

Débit journalier des sédiments en suspension (Daily load): Débit des sédiments en suspension exprimé en tonnes par jour, pour une journée donnée. On l'obtient en multipliant la concentration journalière moyenne des sédiments (mg/L) par le débit journalier moyen de l'eau (m^3/s) et le facteur de conversion 0.0864.

Concentration journalière moyenne (Daily mean concentration): Moyenne pondérée en fonction du temps, calculée à partir d'une courbe de la concentration établie manuellement. La valeur de la concentration moyenne peut être déterminée arithmétiquement ou graphiquement. Pour la déterminer arithmétiquement, on peut, soit choisir sur la courbe des valeurs représentant des intervalles uniformes de temps et faire la moyenne arithmétique, soit choisir sur cette courbe des valeurs qui représentent des intervalles inégaux de temps et pondérer ces valeurs en fonction des intervalles de temps correspondants. En ce qui concerne les méthodes graphiques, consulter *Méthodes de bureau pour les calculs de données sur les sédiments* et, pour la méthode automatisée, *Automated Hydrometric Computation Procedures*.

Échantillon intégré sur toute la profondeur (Depth integrated sediment sample): Échantillon des sédiments en suspension prélevé sur une verticale précise d'une section transversale d'un cours d'eau à l'aide d'un échantillonneur se déplaçant verticalement à une vitesse constante; il représente un échantillon moyen des matières en suspension entre la surface de l'eau et environ 9 cm du fond.

Échantillon instantané de sédiments en suspension (Instantaneous suspended sediment sample): Échantillon prélevé à une verticale précise d'une section transversale d'un cours d'eau.

Débit mesuré des sédiments en suspension (Measured suspended sediment discharge): Débit des sédiments en suspension qui peut être calculé à partir du débit du cours d'eau et de la concentration des sédiments déterminée à partir d'échantillons intégrés sur toute la profondeur.

Analyse granulométrique (Particle-size analysis): Détermination de la répartition de la taille des particules dans un échantillon de sédiments.

Échantillon ponctuel et intégré (Point-integrated sediment sample): Échantillon constitué d'un mélange d'eau et de sédiments, prélevé au cours d'une période de temps donnée en un point précis d'une section transversale d'un cours d'eau et à une profondeur donnée.

Sediment is fragmental material which has deposited, eroded or transported by a flowing stream.

Sediment hydrograph is a graph showing the variation of suspended sediment concentration or sediment discharge with respect to time.

Single sample is a sample taken at a selected permanent vertical in a cross section. Two bottles of water-sediment mixture make up each single sample.

Single sampling vertical is a selected permanent vertical in a cross section in which single suspended sediment samples are collected.

Suspended sediment is sediment that moves in suspension in water either as a colloid or through the influence of the upward component of turbulent currents.

Suspended sediment concentration is the ratio of the weight of dry solids in a water-sediment mixture to the volume of the mixture. The units of this ratio are "milligrams per litre" (mg/L).

Suspended sediment load is the quantity of suspended sediment transported through a cross section per unit of time.

Total sediment load is the sum of the suspended sediment load and the bed load.

Unmeasured sediment load is the difference between total sediment load and measured suspended sediment load.

Sédiments (Sediment): Matières fragmentaires qui ont été déposées, érodées ou transportées par un cours d'eau.

Hydrogramme des sédiments (Sediment hydrograph): Graphique représentant la variation de la concentration des sédiments en suspension ou du débit des sédiments en fonction du temps.

Échantillon unique (Single sample): Échantillon prélevé sur une verticale permanente particulière dans une section transversale. Deux bouteilles du mélange eau-sédiments constituent un seul échantillon.

Verticale d'échantillonnage unique (Single sampling vertical): Verticale permanente d'une section transversale où des échantillons uniques de sédiments en suspension sont prélevés.

Sédiments en suspension (Suspended sediment): Matériaux qui se déplacent au sein de l'eau, soit sous forme colloïdale, soit sous l'influence des forces ascendantes des courants turbulents.

Concentration des sédiments en suspension (Suspended sediment concentration): Rapport entre le poids des matières solides sèches contenues dans un mélange eau-sédiments et le volume du mélange. Les unités employées sont les «milligrammes par litre» (mg/L).

Débit des sédiments en suspension (Suspended sediment load): Quantité de sédiments en suspension transportés par unité de temps à travers une section transversale d'un cours d'eau.

Débit total des sédiments (Total sediment load): Somme du débit des sédiments en suspension et du débit charrié.

Débit non mesuré des sédiments (Unmeasured sediment load): Différence entre le débit total des sédiments et le débit mesuré des sédiments en suspension.

DEFINITION OF SYMBOLS

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates the presence of ice at the gauging station. For gauging stations where discharge data are obtained, this symbol indicates that the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates estimated data. It indicates that the values between collected sediment samples of a peak period are estimated by some indirect method such as interpolation, extrapolation, from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

H – Daily Mean Discharge – is the mean discharge for a particular day, usually referred to as the "daily discharge".

S – Sample(s) collected this day – indicates that a depth-integrated or point-integrated measurement, single vertical sample(s) or a sample collected by an automatic sampling device, was collected this day.

DÉFINITIONS DES SYMBOLES

A – Turbidisonde simple – Indique qu'on a effectué à une station de jaugeage dotée d'une turbidisonde enregistreuse au moins une observation par jour à l'aide d'une turbidisonde simple et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours des périodes d'eau libre.

B – Glaces – Indique la présence de glaces à la station de jaugeage, qui ont faussé la relation hauteur-débit.

E – Estimative – Indique des données estimatives, c'est-à-dire que les valeurs fournies entre les prélèvements d'échantillons d'une période de débit de pointe, sont évaluées de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

H – Débit journalier moyen – Debit moyen pour une journée donnée, ordinairement appelé «débit journalier».

S – Échantillon(s) prélevé(s) en ce jour – Indique qu'on a prélevé ce jour-là un (ou des) échantillon(s), intégré(s) selon la profondeur ou ponctuel(s), sur une (ou des) verticale(s) d'échantillonnage, ou qu'on a prélevé un échantillon au moyen d'un dispositif d'échantillonnage automatique.

CO-OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Data have been mutually exchanged and suspended sediment collection operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain sediment stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining sediment survey records, the Water Survey of Canada is indebted to other federal and provincial organizations which are noted as contributing agencies in the summary for the year. A list of these agencies may be found in the *Sediment Data Reference Index*.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données sur les sédiments, et l'assistance fournie par certains organismes a facilité les opérations d'échantillonnage des sédiments en suspension.

Dans les eaux adjacentes à la frontière internationale, les stations dépendent du Canada ou des États-Unis selon l'accord intervenu entre les deux pays, et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage» dans la présente publication.

La Division des relevés hydrologiques du Canada est redevable à plusieurs organismes fédéraux et provinciaux, dont les noms apparaissent dans le sommaire de l'année, de l'aide et de la collaboration qu'ils lui ont apportées pour l'obtention des données sur les sédiments. On trouvera également les noms des organismes qui ont fourni des données dans l'*Index de référence des données sur les sédiments*.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when the data were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway.

Revisions to daily discharges or sediment data are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. Revisions, corrections or additions made to discharges and sediment after January 1, 1980, are indicated by an "R" symbol in the data summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

RÉVISIONS

On a corrigé ou révisé des données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calcul lorsqu'on a enregistré les données sur rubans magnétiques et qu'on a recalculé les moyennes mensuelles à l'aide d'un ordinateur. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de certaines données de base au cours de la révision systématique des données historiques sur le débit, actuellement en cours.

Les corrections apportées aux débits journaliers ou aux données sur les sédiments ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont indiquées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données révisées sur les débits mensuels et annuels moyens et les extrêmes annuels du débit. Les révisions, corrections ou ajouts apportés aux données sur les débits et sur les sédiments après le 1er janvier 1980 sont indiqués par la lettre R dans les résumés des données. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

MICROFICHE

All sediment data are available in metric units on microfiche, upon request. The data are stored in station number order by province. There are 270 frames per microfiche at 48X reduction; there is a visible heading showing the fiche number, type of data, province, beginning and ending station number and year of data, and the month/year the fiche was created. The last frame is an index of the contents of that fiche.

MICROFICHE

Toutes les données sur les sédiments sont disponibles sur microfiche en unités métriques. Ces données sont emmagasinées par ordre de numéro de station et par province. Chaque microfiche renferme 270 pages réduites de 48X. L'en-tête indique le numéro de la fiche, le genre de données, la province, le numéro de la première et de la dernière station, la première et la dernière année des données ainsi que le mois et l'année de création de la fiche. La dernière image donne l'index de la fiche.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit − 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre vaut 1.6093 km (kilomètre)

1 cm (centimètre) vaut 0.393 70 pouce
1 m (mètre) vaut 3.2808 pieds
1 km (kilomètre) vaut 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre vaut 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré vaut 2.5900 km^2 (kilomètres carrés)
1 mille carré vaut 259.0 ha (hectares)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) vaut 2.4710 acres
1 km^2 (kilomètre carré) vaut 0.386 10 mille carré

1 pied cube vaut 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial vaut 1.2010 gallon américain
1 gallon américain vaut 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour vaut 1.9835 acre-pied
1 pied cube par seconde pendant un jour couvre un volume d'un mille carré par 0.037 19 pouce
1 acre-pied vaut 1.2335 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde vaut 0.6818 mille par heure
1 mille par heure vaut 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètres par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde vaut 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) vaut 35.315 pieds cubes par seconde

1 livre vaut 0.453 59 kg (kilogramme)
1 kg (kilogramme) vaut 2.2046 livres

1 tonne courte (2000 livres) vaut 0.907 18 t (tonne)
1 t (tonne) vaut 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit − 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

NEW BRUNSWICK

BARNABY RIVER BELOW SEMIWAGAN RIVER - STATION NO. 01BO003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-JUN MEAN LOAD (TONNES)	SUMMARY : MAY-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-JUN HISTORICAL STANDARD ERROR OF MEAN %
1975	APR-JUL	M-S	38 MAY 07 *	1 JUN 30 *	384 MAY 07 *	1 880 *	23.5	23.5	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

BECAGUIMEC STREAM AT COLDSTREAM - STATION NO. 01AJ010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1974	APR-DEC	B-S	462 MAY 01 *	3 JUN 29	4 190 MAY 02 *	15 800 *	---	---	---
1975	APR-DEC	B-S	122 SEP 27	3 SEP 30	328 APR 20	3 880	---	---	---
1976	JAN-DEC	M-C	152 FEB 04	1 DEC 16 *	898 APR 03	9 540	28.1	28.1	---
1977	JAN-DEC	B-C	84 APR 01	1 AUG 17	559 APR 01	7 170	19.8	22.8	16.2
1978	JAN-DEC	B-C	127 APR 18	1 SEP 13	273 APR 18	3 820	10.5	18.7	24.2

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

BLACK BROOK NEAR ST-ANDRE-DE-MADAWASKA - STATION NO. 01AF006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL STANDARD ERROR OF MEAN %
1971	APR-SEP	M-S	225 APR 21	0 JUL 28 *	118 APR 20	281	---	---	---
1972	APR-DEC	A-S	2 770 JUN 04 *	1 MAY 28	412 JUN 04	1 380 *	5.57	5.57	---
1973	MAR-NOV	A-S	1 050 AUG 07	4 NOV 07	52.8 APR 28	404	1.88	3.62	54.0
1974	APR-MAY	B-S	1 880 MAY 01	5 APR 08	557 MAY 01 *	1 180	---	---	---

A - AUTOMATIC SAMPLING B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 48 28 37 N LONG 65 03 55 W
DRAINAGE AREA: 188 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 2 026.11 TONNES FOR THE PERIOD APR 01 TO DEC 31

REMARKS:

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.44 B	2	0.42	31.5	18 S	43.5	12.0	18	18.7	1
2	2.81 B	2	0.48	27.7	20 S	47.5	35.5	51	158	2
3	3.30 B	3	0.88	18.4	4 S	6.38	29.5	28	88.5	3
4	3.92 B	4	1.35	18.8	15 S	21.8	15.0	7	9.07	4
5	5.30 B	5	2.28	38.4	36 S	120	8.86	4	3.07	5
6	8.40 B	13	7.19	25.0	8 S	13.0	6.05	4	2.09	6
7	9.20 B	48	38.6	16.9	8 S	8.78	4.40	4	1.52	7
8	25.5	21	46.4	13.3	3 S	3.46	3.46	3	0.90	8
9	15.9	7	9.62	12.0	15 S	15.6	2.89	3	0.75	9
10	10.5	4	3.88	10.3	8 S	4.46	2.29	3	0.59	10
11	8.84	3	2.29	8.37	2 S	1.46	2.30	3	0.80	11
12	8.89	3	1.61	7.14	2 S	1.23	2.10	2	0.38	12
13	5.58	3	1.46	10.2	11 S	9.89	1.88	2 S	0.32	13
14	5.14	2	0.89	11.8	10 S	10.3	2.00	2	0.38	14
15	8.54	5	2.63	15.9	19 S	26.1	5.93	18	9.22	15
16	9.06	12	9.39	14.0	43 S	52.0	5.63	11	5.35	16
17	27.5	38 S	90.2	9.89	21 S	18.1	3.83	7	2.20	17
18	30.8	24 S	83.9	7.38	7	4.45	2.83	5	1.14	18
19	24.2	15 S	31.4	8.44	4	2.23	10.8	21	18.2	19
20	20.7	18 S	28.8	5.33	3	1.38	13.8	9 S	10.7	20
21	21.9	24 S	45.4	4.44	3	1.15	7.18	2	1.24	21
22	18.5	7 S	9.98	5.52	5	2.38	8.25	3	1.62	22
23	17.0	13 S	19.1	4.34	3	1.12	10.1	11	9.60	23
24	24.4	18 S	37.9	3.55	3	0.82	8.98	5	3.87	24
25	40.0	41 S	142	2.92	3	0.78	8.48	4	1.89	25
26	30.8	13 S	34.7	2.53	3	0.65	6.48	5	1.94	26
27	24.5	10 S	21.3	2.24	3	0.58	8.48	8	3.36	27
28	25.4	12 S	26.3	1.98	2	0.34	5.47	4	1.89	28
29	25.6	13 S	28.8	1.82	3	0.50	4.13	4	1.43	29
30	25.0	11 S	23.8	12.9	30	33.4	3.91	4	1.36	30
31				8.40	13	10.8				31
TOTAL	482.13		731.02	356.85		484.16	232.84		338.80	TOTAL

DAY	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	3.08	4	1.08	1.28	2	0.22	0.881	2	0.12	1
2	2.45	3	0.84	1.18	2	0.20	0.784	1 S	0.07	2
3	2.00	3	0.52	1.01	2	0.17	0.740	1	0.08	3
4	1.85	3	0.43	0.819	2	0.18	0.741	1	0.08	4
5	5.44	9	4.23	1.03	2	0.18	0.723	1	0.08	5
6	18.8	17 S	27.8	1.11	2	0.19	0.737	2	0.13	6
7	11.0	4	3.80	1.12	3	0.29	0.858	1	0.08	7
8	32.4	31	86.8	2.58	9 S	2.01	0.558	1	0.05	8
9	59.9	48	248	1.84	4	0.57	0.500	1	0.04	9
10	22.7	8 S	15.7	1.20	3	0.31	0.472	1	0.04	10
11	11.1	3	2.88	1.03	2	0.18	0.473	1	0.04	11
12	12.3	12	12.8	1.02	2	0.18	0.709	2	0.12	12
13	12.8	11	12.2	1.15	2	0.20	0.802	1	0.05	13
14	7.32	6	3.78	3.88	14 S	4.81	0.653	1	0.05	14
15	5.22	4	1.80	4.11	7	2.49	0.513	1	0.04	15
16	4.08	2	0.71	3.44	4	1.19	1.18	4 S	0.40	16
17	3.15	2	0.64	2.53	3	0.65	1.05	3	0.27	17
18	2.58	2	0.45	2.00	3	0.52	0.794	3	0.21	18
19	8.08	11	7.88	1.73	2	0.30	0.888	3	0.17	19
20	8.34	5	2.74	1.38	2	0.24	0.595	2	0.10	20
21	4.01	4	1.38	1.24	3	0.32	0.931	3	0.24	21
22	2.83	3	0.73	1.05	2	0.18	0.784	2	0.14	22
23	2.28	3	0.58	0.831	2	0.18	0.685	2	0.11	23
24	2.17	3	0.56	0.847	2	0.18	0.590	1	0.05	24
25	1.83	3	0.47	1.23	2	0.21	0.515	1	0.04	25
26	1.84	2	0.27	1.01	2	0.17	0.588	2	0.10	26
27	1.48	2	0.26	0.840	2	0.15	0.686	2	0.18	27
28	1.89	3	0.52	0.806	2	0.14	0.595	2 S	0.15	28
29	2.52	4 S	0.87	0.741	1	0.06	0.883	2	0.10	29
30	1.88	3	0.48	0.678	1	0.06	0.518	2	0.09	30
31	1.48	3	0.38	0.887	2 S	0.12				31
TOTAL	268.27		440.87	45.538		15.80	20.155		3.34	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

SUSPENDED SEDIMENT FOR 1984

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.508	2	0.08	0.818	3	0.18	0.900 B	2	0.18	1
2	0.544	2	0.09	0.881	3 S	0.15	0.870 B	1 S	0.08	2
3	1.76	5	0.76	0.888	3	0.18	0.880 B	1	0.07	3
4	1.83	3 S	0.42	0.861	3	0.17	0.850 B	1	0.08	4
5	1.47	3	0.38	0.574	3	0.18	1.08 B	2 S	0.18	5
6	1.48	3	0.38	0.880	4 S	0.31	1.25 B	2	0.22	6
7	1.22	2	0.21	0.928	3	0.24	1.50 B	2 S	0.28	7
8	1.03	2	0.18	0.781	3	0.20	2.10 B	1	0.18	8
9	1.30	3	0.34	0.880	3	0.18	1.85 B	2	0.32	9
10	1.20	3	0.31	0.742	2	0.13	1.70 B	3	0.44	10
11	1.05	2	0.18	0.882	2 S	0.15	1.59 B	2	0.27	11
12	0.932	1 S	0.08	0.883	2	0.17	1.87 B	1 S	0.14	12
13	0.818	1	0.07	1.07	2	0.18	2.40 B	3	0.62	13
14	0.747	2	0.14	1.85	3	0.43	2.38 B	9 S	1.85	14
15	0.894	2	0.12	2.22	3	0.58	2.15 B	3	0.58	15
16	0.861	2 S	0.12	2.10	3	0.54	1.92 B	3	0.50	16
17	0.837	2	0.11	2.78	4	0.85	2.10 B	9 S	1.82	17
18	0.808	2	0.11	2.82	3	0.85	2.20 B	10	1.90	18
19	0.824	2	0.11	1.80	3	0.45	1.93 B	6	1.01	19
20	0.598	1	0.08	1.46	2	0.25	1.78 B	5	0.77	20
21	0.801	1	0.05	1.25 B	2 S	0.22	1.60 B	3	0.41	21
22	0.748	2 S	0.13	1.08 B	2	0.18	1.83 B	5	0.73	22
23	0.759	2	0.13	1.00 B	2	0.17	1.78 B	5	0.76	23
24	0.695	1	0.06	0.920 B	2	0.18	1.50 B	4	0.52	24
25	0.886	2	0.11	0.870 B	1	0.06	2.00 B	7 S	1.21	25
26	0.838	2	0.11	0.820 B	1 S	0.07	2.30 B	8	1.59	26
27	0.872	3	0.15	0.780 B	1	0.07	1.90 B	5	0.82	27
28	0.870	3 S	0.15	0.740 B	1 S	0.08	1.73 B	4	0.60	28
29	0.817	3	0.18	0.710 B	1	0.08	1.58 B	4	0.55	29
30	0.838	3	0.17	0.940 B	2	0.18	1.48 B	3	0.38	30
31	0.857	3 S	0.17				1.38 B	3	0.36	31
TOTAL	28.724		5.84	33.784		7.50	52.120		19.18	TOTAL

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
MAR 26	14:20		5.01	B	15	9.0																D49
MAR 27	13:20		4.01	B	8	9.0																D49
APR 17	16:15	1.0	33.2		37	9.0																D49
APR 18	08:30	1.0	24.1		17	9.0																D49
APR 18	15:15	1.0	15.5		33	9.0																D49
APR 19	08:30	1.0	18.2		11	9.0																D49
APR 19	16:30	1.0	14.5		15	9.0																D49
APR 20	09:35	1.0	13.3		7	9.0																D49
APR 20	16:20	1.0	13.8		16	9.0																D49
APR 21	19:20	0.0	13.0		14	9.0																D49
APR 22	12:00	1.0	9.56		26	9.0																D49
APR 22	19:30	1.0	8.51		5	9.0																D49
APR 23	09:00	1.0	9.56		5	9.0																D49
APR 23	16:00	5.0	9.56		13	9.0																D49
APR 24	09:00	1.0	10.6		18	9.0																D49
APR 24	19:20	2.0	18.1		14	9.0																D49
APR 25	09:00	1.0	40.4		51	9.0																D49
APR 25	19:25	0.0	40.4		30	9.0																D49
APR 26	09:00	0.0	20.8		14	9.0																D49
APR 26	18:30	1.0	21.8		10	9.0																D49
APR 27	08:30	1.0	13.0		5	9.0																D49
APR 27	19:30	2.0	21.8		19	9.0																D49
APR 28	18:40	3.0	20.0		14	9.0																D49
APR 29	11:00	2.0	18.2		11	9.0																D49
APR 29	19:40	3.0	18.1		8	9.0																D49
APR 30	08:00	1.0	17.0		4	9.0																D49
APR 30	19:50	4.0	21.8		21	9.0																D49
MAY 01	07:50	3.0	21.8		8	9.0																D49
MAY 01	19:50	5.0	33.7		23	9.0																D49
MAY 02	08:10	3.0	21.8		28	9.0																D49
MAY 02	19:50	3.0	16.2		4	9.0																D49
MAY 03	08:30	3.0	8.77		4	9.0												32				D49
MAY 03	20:00	5.0	10.1		4	9.0																D49
MAY 04	07:40	3.0	8.77		4	9.0																D49
MAY 04	19:40	3.0	11.5		29	9.0																D49
MAY 05	19:40	2.0	31.1		15	9.0																D49
MAY 06	08:00	2.0	20.0		7	9.0																D49
MAY 06	19:45	4.0	13.0		4	9.0																D49
MAY 07	07:45	3.0	10.1		11	9.0																D49
MAY 07	19:50	1.0	11.5		1	9.0																D49
MAY 08	07:50	4.0	7.57		3	9.0																D49
MAY 09	16:45	7.0	5.43		24	9.0																D49
MAY 10	09:10	8.0	5.02		4	9.0																D49
MAY 11	13:00	10.0	3.83		2	9.0																D49
MAY 12	19:45	9.0	1.43		2	9.0																D49
MAY 13	13:50	11.0	8.48		22	9.0																D49
MAY 14	10:15	9.0	3.83		2	9.0																D49
MAY 15	15:15	8.0	11.5		13	9.0																D49
MAY 16	07:20	7.0	7.57		48	9.0																D49
MAY 17	13:40	9.0	2.74		17	9.0																D49
JUN 13	11:00	2.0	1.78		2	9.0												39				D49
JUN 20	13:30	17.0	8.48		4	9.0																D49
JUL 6	13:00	18.0	18.2		12	9.0																D49
JUL 10	10:40	16.0	20.0		8	9.0												47				D49
JUL 28	15:45	20.0	2.48		3	9.0																D49
AUG 8	14:45	24.0	2.48		7	9.0																D49
AUG 14	13:44	22.0	8.25		21	9.0												66				D49
AUG 31	18:40	22.0	0.592		1	9.0																D49
SEP 2	15:45	17.0	0.755		1	9.0																D49
SEP 18	14:20	12.0	1.22		4	9.0																D49
SEP 28	10:00	10.0	0.873		3	9.0																D49
OCT 4	14:45	9.0	1.55		3	9.0																D49
OCT 12	12:40	10.0	0.927		1	9.0																D49
OCT 16	14:35	8.0	0.755		2	9.0																D49
OCT 22	12:45	11.0	0.755		1	9.0																D49
OCT 26	16:35	8.0	0.592		3	9.0																D49
OCT 31	15:05	8.0	0.592		3	9.0												93				D49
NOV 2	15:00	7.0	0.592		3	9.0																D49
NOV 06	14:50	7.0	0.927		4	9.0																D49
NOV 11	16:50	0.0	0.438		2	9.0																D49
NOV 21	15:15	0.0	1.25	B	2	9.0																D49
NOV 25	13:15	0.0	0.820	B	1	9.0																D49
NOV 28	13:50	1.0	0.740	B	1	9.0																D49
NOV 30	15:15	4.0	0.940	B	2	9.0												78				D49
DEC 2	16:00	3.0	0.670	B	1	9.0																D49
DEC 05	14:25	0.0	1.08	B	3	9.0																D49
DEC 07	15:05	0.0	1.50	B	1	9.0																D49
DEC 12	09:55	0.0	1.67	B	1	9.0																D49
DEC 14	15:00	0.0	2.38	B	8	9.0																D49
DEC 17	13:40	1.0	2.10		8	9.0																D49
DEC 26	13:50	0.0	2.00		8	9.0																D49

NOTE : SINGLE VERTICAL LOCATED AT 9.0 METRES

DISCHARGE SYMBOL(S): B - ICE CONDITIONS

NEW BRUNSWICK

COAL BRANCH RIVER AT BEERSVILLE - STATION NO. 01BS001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	SUMMARY : APR-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-DEC STANDARD ERROR OF MEAN %
1984	MAR-DEC	M-S	51 APR 25 *	1 MAY 07 *	248 JUL 09 *	2 030 *	7.38	7.38	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 45 12 35 N LONG 67 15 45 W
DRAINAGE AREA: 115 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 436.40 TONNES FOR THE PERIOD APR 01 TO NOV 30

REMARKS:

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	2.57	5	1.11	4.56	2 S	0.79	8.45	16 S	11.7	1
2	2.77	4	0.96	3.75	3 S	0.97	16.5	16 S	25.7	2
3	3.37	5	1.46	3.40	4 S	1.18	17.6	8 S	12.3	3
4	4.36	6	2.25	3.94	11 S	3.74	15.6	6	8.09	4
5	5.29	6	2.74	5.08	5 S	2.19	12.8	4 S	4.42	5
6	26.4	37 S	84.4	5.22	3 S	1.35	8.16	2 S	2.12	6
7	31.4	14	38.0	5.01	3 S	1.30	4.84	3 S	1.25	7
8	31.4	10	27.1	4.20	3 S	1.09	3.68	3 S	0.95	8
9	23.3	9 S	18.1	3.92	3 S	1.02	3.02	3 S	0.78	9
10	14.8	9 S	11.6	3.86	2 S	0.83	2.43	2 S	0.42	10
11	10.1	7 S	6.11	3.26	2 S	0.57	2.13	2	0.37	11
12	7.89	5 S	3.41	2.92	5 S	1.26	1.73	2	0.30	12
13	6.61	3 S	1.71	3.68	4 S	1.27	1.27	2	0.22	13
14	8.38	3 S	1.65	3.90	4 S	1.35	0.978	2	0.17	14
15	8.97	4 S	2.41	4.64	4 S	1.80	0.949	2	0.16	15
16	8.97	12 S	9.30	4.47	3 S	1.16	0.858	2	0.15	16
17	16.6	14 S	20.1	3.94	3 S	1.02	0.751	2	0.13	17
18	17.7	7 S	10.7	3.35	3 S	0.87	0.684	1	0.06	18
19	16.0	6 S	8.29	2.73	2 S	0.47	1.30	6	0.67	19
20	12.0	3 S	3.11	2.36	2 S	0.41	1.57	2	0.27	20
21	8.28	4 S	3.21	2.29	3	0.59	1.52	2	0.25	21
22	7.52	4 S	2.80	2.06	2	0.36	1.53	3	0.40	22
23	6.48	4 S	2.23	1.59	2	0.27	1.40	2	0.24	23
24	5.04	3 S	1.57	1.25	2	0.22	1.07	2	0.18	24
25	6.47	10 S	7.32	1.10	1	0.10	0.969	2	0.17	25
26	6.62	2 S	1.49	1.01	1	0.09	2.54	21 S	4.61	26
27	6.11	3 S	2.10	1.02	1	0.09	4.30	8 S	2.97	27
28	6.62	4 S	2.38	0.949	1	0.08	4.44	4 S	1.53	28
29	5.66	4 S	1.96	1.51	8	1.04	4.92	4 S	1.70	29
30	4.76	3 S	1.23	3.53	11 S	3.35	4.89	3 S	1.27	30
31				3.50	8 S	1.81				31
TOTAL	326.82		280.49	97.789		32.24	133.069		83.56	TOTAL

DAY	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	4.11	2 S	0.71	0.372	1	0.03	0.163	2	0.02	1
2	3.26	2 S	0.56	0.331	1	0.03	0.150	2	0.03	2
3	2.61	3 S	0.68	0.307	1	0.03	0.142	2	0.02	3
4	3.21	2	0.56	0.288	1	0.02	0.165	2	0.03	4
5	1.60	2	0.31	0.251	1	0.02	0.163	2	0.03	5
6	1.82	3	0.47	0.214	1	0.02	0.122	2	0.02	6
7	1.82	2	0.31	0.206	1	0.02	0.098	2	0.02	7
8	3.09	8 S	2.40	0.219	1	0.02	0.090	2	0.02	8
9	5.67	7 S	3.43	0.303	2	0.05	0.070	1	0.01	9
10	5.81	4 S	1.94	0.287	1	0.03	0.059	1	0.01	10
11	5.66	6 S	2.53	0.382	1	0.02	0.119	3	0.03	11
12	5.77	2 S	1.00	0.281	1	0.02	0.733	6	0.38	12
13	4.83	1 S	0.43	0.242	1	0.02	0.490	3	0.13	13
14	3.87	1 S	0.34	0.231	1	0.02	0.633	4	0.18	14
15	3.13	2 S	0.64	0.227	1	0.02	0.728	4	0.25	15
16	2.86	2	0.51	0.288	2	0.05	0.943	3	0.24	16
17	2.47	2	0.43	0.257	2	0.04	0.894	3	0.23	17
18	3.11	3	0.65	0.234	2	0.04	0.650	2	0.15	18
19	3.38	3 S	0.61	0.219	1	0.02	0.768	1	0.07	19
20	3.04	1	0.18	0.337	4	0.12	0.883	1 S	0.06	20
21	1.78	1	0.15	0.365	2	0.06	0.585	1	0.05	21
22	1.48	1	0.13	0.281	2	0.05	0.495	1	0.04	22
23	1.18	1	0.10	0.270	2	0.05	0.427	1	0.04	23
24	1.02	1	0.09	0.264	2	0.05	0.373	1	0.03	24
25	0.873	1	0.08	0.233	2	0.04	0.348	1	0.03	25
26	0.780	1	0.08	0.215	2	0.04	0.350	2	0.06	26
27	0.842	1	0.08	0.154	2	0.03	0.345	1	0.03	27
28	0.628	1	0.05	0.140	1	0.01	0.286	1	0.02	28
29	0.812	1	0.04	0.144	1	0.01	0.262	1	0.02	29
30	0.440	1	0.04	0.139	1	0.01	0.311	1	0.03	30
31	0.387	1	0.03	0.154	1	0.01				31
TOTAL	77.310		18.14	7.679		1.00	11.736		2.26	TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR006

SUSPENDED SEDIMENT FOR 1984

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.430	2	0.07	0.272	1	0.02				1
2	0.830	2	0.11	0.305	1	0.03				2
3	0.894	2	0.15	0.326	1	0.03				3
4	0.782	2	0.14	0.312	1	0.03				4
5	0.606	2	0.10	0.327 A	1	0.03				5
6	0.580	2	0.10	0.435 E	1	0.04				6
7	0.536	2	0.09	0.419 E	1	0.04				7
8	0.492	1	0.04	0.406 A	1	0.04				8
9	0.510	1	0.04	0.372	2	0.08				9
10	0.453	1	0.04	0.397	1	0.03				10
11	0.358	1	0.03	0.418	1	0.04				11
12	0.311	1	0.03	0.899	7	0.54				12
13	0.276	1	0.02	1.35	4	0.47				13
14	0.257	1	0.02	1.55	4	0.54				14
15	0.225	1	0.02	1.86	4 S	0.64				15
16	0.233	2	0.04	1.95	4	0.67				16
17	0.224	1	0.02	1.92	3	0.50				17
18	0.221	1	0.02	1.75	2	0.30				18
19	0.217	1	0.02	1.55	2	0.27				19
20	0.228	1	0.02	1.87	8	1.29				20
21	0.247	1	0.02	1.15	3	0.30				21
22	0.251	1	0.02	1.00	3	0.25				22
23	0.276	1	0.02	0.930	3	0.24				23
24	0.279	1 S	0.02	0.850	2	0.15				24
25	0.261	1	0.02	1.01	5	0.44				25
26	0.253	1	0.02	1.15	5	0.52				26
27	0.253	1	0.02	0.703	3	0.18				27
28	0.264	1	0.02	0.622 A	3	0.15				28
29	0.286	1	0.03	0.642	3	0.17				29
30	0.281	1	0.02	0.810	3	0.21				30
31	0.279	1	0.02							31
TOTAL	11.404		1.35	27.595		8.34				TOTAL

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
APR 06	15:00	1.0	35.2	46	4.5												33				DH59
APR 09	11:35	1.0	23.7	9	4.5																DH59
APR 09	12:50	1.0	23.3	26	4.5																DH59
APR 09	16:00	2.0	23.3	9	4.5																DH59
APR 10	07:38	2.0	21.5	11	4.5																DH59
APR 10	16:30	2.0	16.0	30	4.5																DH59
APR 11	07:30	2.0	10.9	5	4.5																DH59
APR 11	12:00	2.0	9.84	9	4.5																DH59
APR 11	16:00	2.0	9.84	8	4.5																DH59
APR 12	07:30	2.0	8.44	8	4.5																DH59
APR 12	12:00	2.0	8.20	4	4.5																DH59
APR 12	16:00	2.0	7.23	3	4.5																DH59
APR 13	07:30	2.0	6.65	4	4.5																DH59
APR 13	16:00	3.0	6.55	26	4.5												37				DH59
APR 14	08:30	3.0	6.12	1	4.5																DH59
APR 14	16:00	6.6	6.55	6	4.5																DH59
APR 15	08:30	2.2	7.00	4	4.5																DH59
APR 15	20:00	3.3	7.23	4	4.5																DH59
APR 16	07:30	3.3	7.47	4	4.5																DH59
APR 16	16:00	3.3	10.1	24	4.5																DH59
APR 17	07:30	4.4	17.1	12	4.5																DH59
APR 17	12:00	3.3	16.6	7	4.5												34				DH59
APR 17	16:00	3.3	17.1	8	4.5																DH59
APR 18	07:30	3.3	17.1	6	4.5																DH59
APR 18	12:00	5.5	17.9	6	4.5																DH59
APR 18	16:00	4.4	18.2	7	4.5																DH59
APR 18	07:30	3.3	17.1	8	4.5																DH59
APR 19	12:00	3.3	15.8	4	4.5																DH59
APR 19	16:00	3.3	16.3	3	4.5																DH59
APR 20	08:00	2.2	12.3	4	4.5																DH59
APR 20	14:00	4.4	11.8	4	4.5																DH59
APR 20	19:00	4.4	11.1	4	4.5												31				DH59
APR 21	08:00	3.3	9.40	3	4.5																DH59
APR 21	16:00	3.3	8.82	4	4.5																DH59
APR 22	08:00	3.3	7.71	3	4.5																DH59
APR 22	20:00	4.4	7.00	5	4.5																DH59
APR 23	07:30	3.3	6.55	4	4.5																DH59
APR 23	16:00	7.7	6.33	4	4.5																DH59
APR 24	07:30	3.3	6.12	3	4.5																DH59
APR 24	16:00	5.5	5.81	3	4.5																DH59
APR 25	10:00	4.4	5.54	4	4.5																DH59
APR 25	16:00	4.4	5.44	5	4.5																DH59
APR 25	07:30	3.3	5.44	2	4.5																DH59
APR 26	16:00	4.4	5.88	2	4.5																DH59
APR 27	07:30	4.4	5.44	3	4.5																DH59
APR 27	16:00	7.7	7.85	4	4.5																DH59
APR 28	08:00	5.5	7.23	4	4.5																DH59
APR 28	19:30	5.5	6.55	3	4.5																DH59
APR 29	09:00	5.5	5.91	4	4.5																DH59
APR 29	19:30	10.0	5.27	3	4.5																DH59
APR 30	18:30	12.2	4.86	2	4.5																DH59
MAY 01	16:00	16.6	4.66	2	4.5																DH59
MAY 02	16:00	10.0	3.88	3	4.5																DH59
MAY 03	17:00	13.3	3.31	3	4.5																DH59
MAY 04	16:00	6.6	4.87	23	4.5																DH59
MAY 05	09:00	5.5	5.27	5	4.5																DH59
MAY 05	13:00	10.0	5.48	3	4.5																DH59
MAY 07	16:30	13.3	5.07	2	4.5																DH59
MAY 08	16:00	11.1	3.87	3	4.5																DH59
MAY 09	16:30	12.2	3.87	2	4.5																DH59
MAY 10	16:00	13.3	3.88	1	4.5																DH59
MAY 11	16:00	14.4	3.14	2	4.5												39				DH59
MAY 12	17:00	11.1	2.69	8	4.5																DH59
MAY 13	09:00	10.0	3.88	3	4.5																DH59
MAY 14	16:00	11.1	4.08	4	4.5																DH59
MAY 15	16:00	12.2	4.66	3	4.5																DH59
MAY 16	15:40	12.7	4.43	3	4.5																DH59
MAY 16	16:00	13.3	4.43	2	4.5																DH59
MAY 17	16:00	13.3	3.87	4	4.5																DH59
MAY 18	16:00	12.2	3.14	2	4.5																DH59
MAY 19	07:45	6.6	2.84	2	4.5																DH59
MAY 20	09:20	12.2	2.42	2	4.5												38				DH59
MAY 30	21:00	14.4	3.14	5	4.5																DH59
MAY 31	21:00	14.4	3.87	7	4.5																DH59
JUN 01	18:45	14.4	3.44	11	4.5																DH59
JUN 02	08:30	13.2	17.3	22	4.5																DH59
JUN 02	14:00	13.3	17.3	13	4.5																DH59
JUN 02	21:30	13.2	17.9	10	4.5																DH59
JUN 03	09:30	13.3	16.5	7	4.5																DH59
JUN 03	21:00	14.4	17.3	7	4.5																DH59
JUN 05	13:00	18.1	38.7	3	4.5																DH59
JUN 05	19:30	18.5	18.5	4	4.5												61				DH59
JUN 06	13:30	17.7	8.20	11	4.5																DH59
JUN 06	19:00	17.7	7.00	3	4.5																DH59
JUN 07	13:00	17.7	4.86	3	4.5																DH59
JUN 08	13:30	18.8	3.48	2	4.5																DH59
JUN 09	08:30	17.7	2.89	2	4.5																DH59
JUN 10	08:30	18.8	2.55	2	4.5																DH59
JUN 26	16:00	14.4	4.46	48	4.5																DH59
JUN 27	13:30	14.4	4.25	4	4.5																DH59
JUN 28	19:00	18.8	4.25	4	4.5																DH59
JUN 29	19:00	17.7	5.07	3	4.5																DH59
JUN 30	08:30	16.6	4.87	3	4.5																DH59
JUL 01	12:30	20.0	4.25	2	4.5																DH59
JUL 02	10:00	21.1	3.48	2	4.5																DH59
JUL 03	10:00	17.7	2.55	2	4.5												42				DH59
JUL 08	08:00	16.6	3.48	7	4.5																DH59
JUL 09	12:00	21.1	5.81	5	4.5																DH59
JUL 10	09:00	21.1	5.89	3	4.5																DH59
JUL 11	08:00	23.3	5.89	5	4.5																DH59
JUL 12	17:00	21.1	5.46	2	4.5																DH59
JUL 13	16:00	23.3	4.67	1	4.5												46				DH59
JUL 14	21:00	21.1	3.48	1	4.5																DH59

NOTE : SINGLE VERTICAL LOCATED AT 4.5 METRES

CONTINUED

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR008 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JUL 15	21:00	22.2	2.84		2	4.5																
JUL 19	14:30	27.0	2.36	M	1	4.5												48				DH59
SEP 20	07:30	12.0	0.853		1	4.5																DH59
OCT 24	10:20	8.1	0.279		1	4.5																DH59
NOV 15	15:40	4.4	1.99		4	4.5																DH59
DEC 11	10:30	1.0	2.21		4	4.5																DH59
DEC 13	18:30	3.8	3.67		34	4.5																DH59
DEC 14	18:30	0.0	3.49		3	4.5																DH59

NOTE : SINGLE VERTICAL LOCATED AT 4.5 METRES

DISCHARGE SYMBOL(S): M - DAILY MEAN

DENNIS STREAM NEAR ST. STEPHEN - STATION NO. 01AR008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1984	APR-DEC	M-S	48	APR 08 *	1	APR 14 *	84.6	APR 08 *	427	*	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

GRAND RIVER AT VIOLETTE BRIDGE - STATION NO. 01AF007

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 47 14 45 N LONG 67 55 19 W
DRAINAGE AREA: 339 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 7 805.83 TONNES FOR THE PERIOD APR 01 TO OCT 31

REMARKS:

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.26 B	9	1.76	86.6	48 S	277	48.6	79	333	1
2	2.22 B	8	1.53	72.3	100	625	35.6	52	160	2
3	2.20 B	6	1.14	50.4	39 S	170	24.6	36	77.1	3
4	2.36 B	6	1.22	39.4	18 S	61.3	18.5	27	43.2	4
5	3.70 B	5	1.60	33.6	12 S	34.8	15.1	20	26.1	5
6	8.80 B	6	2.94	34.0	12 S	35.3	12.7	15	16.5	6
7	11.4 B	19	18.7	33.7	7 S	20.4	11.0	13	12.4	7
8	18.0 B	58	90.2	33.4	10 S	28.9	9.53	11	8.08	8
9	15.0 B	28	36.3	38.8	24 S	82.1	8.40	10	7.28	9
10	13.2 B	17	18.4	41.4	24 S	86.8	7.12	9	5.54	10
11	12.0 B	13	13.6	32.8	11 S	31.0	6.28	8 S	4.32	11
12	11.0 B	12	11.4	33.1	8 S	25.7	5.70	8	3.94	12
13	10.2 B	13	11.5	46.0	23 S	89.4	5.30	8	3.86	13
14	17.5 B	14	21.2	36.8	15 S	50.3	5.20	9	4.82	14
15	26.0 B	17	38.2	36.8	26 S	87.2	7.76	11	7.32	15
16	37.8 B	41	134	33.3	8 S	23.0	6.85	10	6.00	16
17	48.0	121	502	27.2	8 S	18.8	5.41	8	3.74	17
18	52.3	113 S	511	22.5	7 S	13.8	4.48	5	1.94	18
19	49.9	80 S	386	19.5	7 S	11.8	18.8	34	48.5	19
20	47.1	88 S	398	17.4	8 S	9.02	17.8	18 S	24.3	20
21	44.6	88 S	254	16.0	6	8.28	10.2	9	7.93	21
22	36.6	46 S	141	14.9	6	7.72	7.12	7	4.31	22
23	33.3	33 S	94.8	13.8	6	6.64	5.89	6	2.95	23
24	44.2	70 S	267	20.3	22	38.6	5.03	5	2.17	24
25	54.3	85 S	399	16.0	11	17.1	4.88	4	1.61	25
26	48.8	35 S	147	13.4	8	9.28	13.6	15	17.6	26
27	46.4	40 S	167	10.9	7	6.59	36.6	53	167	27
28	51.4	43 S	191	8.89	8	4.61	24.6	25	53.6	28
29	55.8	36 S	173	7.94	5	3.43	17.1	14	20.7	29
30	57.5	38 S	178	19.7	25	44.3	21.8	28	52.0	30
31				31.8	44	121				31
TOTAL	882.54		4 217.48	927.63		2 047.85	419.84		1 128.57	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	17.8	18	27.4	3.11	4	1.07	2.39	5	1.03	1
2	12.3	10	10.8	2.88	4	0.93	2.85	5	1.37	2
3	9.31	6	5.44	2.40	3	0.62	2.18	5	0.94	3
4	7.73	5	4.01	2.18	4	0.75	1.84	4	0.84	4
5	7.12	5	3.08	2.07	4	0.72	1.80	3	0.47	5
6	6.85	4	2.31	2.11	4	0.73	2.08	7	1.25	6
7	6.45	4	2.23	2.82	5	1.38	1.70	5	0.72	7
8	19.8	28	48.6	3.27	4	1.13	1.51	4	0.52	8
9	14.4	14	17.4	2.85	4	0.88	1.38	4	0.48	9
10	9.50	9	7.39	1.99	4	0.69	1.30	4	0.45	10
11	6.82	5	3.64	1.86	5	0.80	1.21	4	0.42	11
12	12.4	21	22.5	5.13	18	7.98	1.13	5	0.49	12
13	16.4	32	50.9	5.81	13 S	8.30	1.08	5	0.47	13
14	10.6	10	9.18	3.71	8	1.92	1.03	5	0.44	14
15	7.85	8	4.07	3.02 A	4	1.04	1.02	4	0.35	15
16	14.7	30 S	38.1	8.00 E	8	5.53	1.02	4	0.35	16
17	16.4	20 S	31.8	4.75 E	4	1.84	1.00	4 S	0.35	17
18	11.4	5	4.82	3.70 E	4	1.28	0.997	5	0.43	18
19	8.40	7	5.69	3.00 E	4	1.04	0.978	4	0.34	19
20	7.97	8	4.13	2.52 E	4	0.87	1.11	4	0.38	20
21	6.57	5	2.84	2.22 E	4	0.77	1.18	4	0.40	21
22	5.95	4	2.08	2.00 E	4	0.89	1.10	4	0.38	22
23	5.88	4	1.97	2.10 E	5	0.81	1.01	4	0.35	23
24	6.54	12	6.85	2.25 E	4	0.78	0.973	4	0.34	24
25	6.86	5	2.88	2.04 E	4	0.71	0.918	4	0.32	25
26	5.02	4	1.73	1.85 E	4	0.64	1.02	5	0.44	26
27	4.51	4	1.55	1.74 E	4	0.60	1.38	7	0.83	27
28	4.53	4	1.57	1.85 A	4 S	0.57	1.20	4	0.41	28
29	4.40	3	1.14	1.57	4	0.54	1.03	4	0.35	29
30	3.78	4	1.30	1.54	4	0.53	1.00	3	0.26	30
31	3.48	4	1.20	1.88	5	0.81				31
TOTAL	287.93		332.37	87.13		44.83	40.184		15.89	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

GRAND RIVER AT VIOLETTE BRIDGE - STATION NO. 01AF007

SUSPENDED SEDIMENT FOR 1984

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.938	3	0.24							1
2	0.808	4	0.31							2
3	1.41	8	1.10							3
4	2.58	9	1.89							4
5	2.05	6	1.07							5
6	1.55	5	0.67							6
7	1.34	5	0.58							7
8	1.30	4	0.48							8
9	2.82	11	2.88							9
10	2.88	5	1.25							10
11	1.88	4	0.88							11
12	1.54	4	0.53							12
13	1.31	4	0.45							13
14	1.24	4	0.43							14
15	1.14	4	0.39							15
16	1.02	4	0.35							16
17	1.01	4	0.35							17
18	0.986	4	0.34							18
19	0.944	4	0.33							19
20	0.900	4	0.31							20
21	0.922	4	0.32							21
22	0.872	3	0.25							22
23	0.858	3 S	0.25							23
24	0.841	3	0.24							24
25	0.804	3	0.23							25
26	0.891	4	0.28							26
27	0.885	4	0.30							27
28	1.05	5	0.45							28
29	1.72	10	1.48							29
30	1.54	8	0.87							30
31	1.24	4	0.43							31
TOTAL	41.807		19.42							TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

GRAND RIVER AT VIOLETTE BRIDGE - STATION NO. 01AF007

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
APR 18	11:00	1.5	55.5	100	16.0																D49
APR 18	16:25	3.0	56.6	131	16.0																D49
APR 18	18:38	3.0	56.4	124	16.0																D49
APR 19	10:25		52.2	67	16.0																D49
APR 19	13:25	3.0	55.3	73	16.0																D49
APR 19	18:30		54.4	131	16.0																D49
APR 20	09:10		48.6	66	16.0																D49
APR 20	13:00		52.5	137	16.0																D49
APR 20	18:00		50.2	103	16.0																D49
APR 21	08:00		51.0	70	16.0																D49
APR 21	15:45		49.6	52	16.0												67				D49
APR 21	18:15		47.7	53	16.0																D49
APR 22	11:09		38.2	41	16.0																D49
APR 22	16:45		38.3	55	16.0																D49
APR 23	09:20		35.5	32	16.0																D49
APR 23	15:00		36.1	26	16.0																D49
APR 24	11:45		48.7	57	16.0																D49
APR 24	16:25		49.6	62	16.0																D49
APR 24	18:40		51.1	71	16.0																D49
APR 25	08:35		58.8	105	16.0																D49
APR 25	10:00		60.8	92	16.0																D49
APR 25	15:10		60.7	67	16.0																D49
APR 26	08:40		64.7	40	16.0																D49
APR 26	16:40		60.5	33	16.0																D49
APR 26	18:40		60.0	31	16.0																D49
APR 27	08:30		52.5	38	16.0																D49
APR 27	16:40		52.1	36	16.0												76				D49
APR 27	20:10		52.5	41	16.0																D49
APR 28	09:35		58.0	27	16.0																D49
APR 28	13:25		58.5	40	16.0																D49
APR 28	17:40		55.9	28	16.0												74				D49
APR 29	12:00		51.1	42	16.0																D49
APR 29	16:30		50.7	35	16.0																D49
APR 29	21:00		50.5	27	16.0																D49
APR 30	08:45		51.5	43	16.0																D49
APR 30	16:40		53.7	33	16.0																D49
MAY 01	08:20		57.7	35	16.0																D49
MAY 01	16:50		78.5	54	16.0																D49
MAY 01	20:30		78.5	55	16.0																D49
MAY 02	08:40		53.0	50	16.0																D49
MAY 02	16:00	4.0	52.1	28	16.0												77				D49
MAY 02	20:50	2.0	48.9	25	16.0																D49
MAY 04	09:47		45.4	7	16.0																D49
MAY 04	14:30		42.8	20	16.0																D49
MAY 04	18:25	4.0	41.8	15	16.0																D49
MAY 05	09:45	8.0	38.0	10	16.0																D49
MAY 05	17:30	2.0	37.7	12	16.0																D49
MAY 06	09:15	2.5	38.5	13	16.0																D49
MAY 06	17:50	5.5	38.3	10	16.0																D49
MAY 07	14:00	8.5	38.1	8	16.0																D49
MAY 07	16:45	8.0	37.8	10	16.0																D49
MAY 08	12:00	4.5	38.2	12	16.0																D49
MAY 08	12:30	5.0	37.7	14	16.0																D49
MAY 08	16:40	5.0	38.3	10	16.0																D49
MAY 09	12:30	4.5	44.4	28	16.0																D49
MAY 09	15:30	4.5	46.3	27	16.0																D49
MAY 09	18:50	5.0	47.6	35	16.0																D49
MAY 10	12:05	4.5	48.3	15	16.0																D49
MAY 10	17:40	8.0	46.6	15	16.0																D49
MAY 10	21:00	3.0	45.3	14	16.0																D49
MAY 11	14:10	8.0	37.6	12	16.0																D49
MAY 11	17:30	7.0	38.6	10	16.0																D49
MAY 12	13:50	8.0	37.0	11	16.0																D49
MAY 12	18:05	8.0	38.2	11	16.0																D49
MAY 13	13:40	8.0	82.7	30	16.0																D49
MAY 13	18:30	7.0	83.1	28	16.0																D49
MAY 13	20:00	7.0	82.7	25	16.0																D49
MAY 14	15:00	5.0	43.6	11	16.0																D49
MAY 14	18:10	5.0	42.1	21	16.0																D49
MAY 14	20:40	5.0	41.7	15	16.0																D49
MAY 15	13:40	8.0	48.8	17	16.0												68				D49
MAY 15	18:05	8.0	48.8	18	16.0																D49
MAY 15	20:10	8.0	48.3	13	16.0																D49
MAY 16	15:50	8.0	37.8	8	16.0												65				D49
MAY 16	18:20	8.5	38.5	8	16.0																D49
MAY 17	15:45	8.5	32.3	10	16.0																D49
MAY 17	20:35	8.0	31.0	8	16.0																D49
MAY 18	13:10	8.0	28.6	8	16.0																D49
MAY 18	16:35	9.5	24.6	8	16.0																D49
MAY 20	18:30	11.5	21.8	8	16.0																D49
JUN 11	11:35	9.5	0.87	8	16.0																D49
JUN 20	10:10	14.5	20.2	15	16.0																D49
JUL 16	12:40	23.0	15.1	32	16.0																D49
JUL 17	16:00	24.0	17.2	11	16.0																D49
AUG 13	14:45	23.0	5.06	11	16.0																D49
AUG 28	14:15	21.0	3.26	4	16.0																D49
SEP 17	13:00	11.0	0.875	4	16.0																D49
OCT 23	13:45	7.5	0.875	3	16.0																D49

NOTE : SINGLE VERTICAL LOCATED AT 16 METRES

NEW BRUNSWICK

GRAND RIVER AT VIOLETTE BRIDGE - STATION NO. 01AF007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : HISTORICAL STANDARD ERROR OF MEAN %
1984	APR-OCT	M-S	137	APR 20 *	3	OCT 23 *	525	MAY 02 *	7 810	*	---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

HOLMES BROOK AT MOOSE MOUNTAIN - STATION NO. 01AJ005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1971	APR-DEC	M-S	55	MAY 04	0	AUG 31 *	7.55	MAY 04	64.9		---	---	---
1972	JAN-DEC	M-C	85	MAR 18	0	FEB 08	10.7	MAR 18	107		0.29	0.29	---
1973	JAN-DEC	M-C	330	APR 28 *	0	MAR 19	280	JUL 05 *	822	*	2.26	1.26	77.0
1974	JAN-MAY	M-C	189	MAY 01	1	JAN 11	87.7	APR 15	336		---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

HOLMES BROOK NEAR HOLMESVILLE - STATION NO. 01AJ007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1971	APR-DEC	M-S	77	AUG 10	0	MAY 25 *	17.4	APR 15	134		---	---	---
1972	JAN-DEC	M-C	767	MAY 15 *	1	JUL 25	208	MAY 19	972		2.66	2.66	---
1973	JAN-DEC	M-C	332	APR 28	0	JAN 06	650	JUL 05 *	3 370	*	9.25	5.95	55.3
1974	JAN-MAY	M-C	567	MAY 02	2	JAN 04	248	MAY 02	1 280		---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 45 42 07 N LONG 65 38 05 W
DRAINAGE AREA: 1 100 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 43 868.73 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	21.6 B	15	28.3	12.0 B	8	8.28	51.7	35	156	1
2	20.6 B	21	37.7	11.5 B	8	8.04	38.2	12 S	39.6	2
3	19.5 B	52	87.6	14.0 B	12 S	14.5	29.0 B	7	17.5	3
4	18.5 B	80 S	126	18.0 B	133	218	25.0 B	4	8.64	4
5	17.5 B	47	71.1	40.0 B	365 S	1 230	22.6 B	2 S	3.94	5
6	17.1 B	29 S	42.6	103 B	24 S	214	20.0 B	3	5.18	6
7	16.0 B	28	40.4	85.0 B	16 S	118	18.0 B	5 S	7.78	7
8	15.2 B	25	35.0	68.0 B	8 S	45.8	16.9 B	5	7.30	8
9	15.0 B	21	27.2	58.0 B	8 S	25.0	15.5 B	4 S	5.36	9
10	14.3 B	16	19.8	48.0 B	4 S	16.9	14.5 B	3	3.78	10
11	13.3 B	11	12.6	42.0 B	5	18.1	13.8 B	3	3.80	11
12	12.7 B	6	6.58	38.0 B	16	52.5	13.0 B	3	3.35	12
13	12.0 B	3 S	3.11	36.0 B	16 S	49.8	12.6 B	3 S	3.18	13
14	11.1 B	3	2.88	34.0 B	10	29.4	12.0 B	2	2.07	14
15	10.4 B	5	4.49	47.1 B	33 S	134	24.0 B	34	70.5	15
16	10.0 B	5	4.32	84.0 B	44 S	357	127	205 S	2 250	16
17	9.30 B	5	4.02	74.0 B	15 S	95.9	188	181 S	2 950	17
18	8.81 B	5 S	3.85	72.2	11	68.5	139	46 S	578	18
19	8.50 B	5	3.68	44.9	11	42.7	77.4	84 S	351	19
20	8.10 B	11 S	7.70	37.0 B	18 S	57.5	85.0	47	284	20
21	7.80 B	10	6.74	31.0 B	11	29.5	82.7	33 S	175	21
22	7.50 B	5	3.89	28.0 B	10 S	24.2	88.7	103 S	784	22
23	7.30 B	4	2.52	25.0 B	9	19.4	108	77 S	719	23
24	8.80 B	5	3.72	33.0	13 S	37.1	87.3	34 S	255	24
25	14.0 B	65 S	78.8	62.5	84 S	870	81.9	20 S	107	25
26	20.0 B	238	413	64.9	44	247	48.3	20 S	85.2	26
27	16.0 B	120 S	167	44.8	15 S	58.1	43.1	14 S	67.0	27
28	16.0 B	103	142	38.2	10	31.3	38.9	26 S	89.3	28
29	14.7 B	64	81.3	36.8	24 S	80.7	34.6	30	89.7	29
30	13.8 B	28	33.4				31.5	29 S	78.8	30
31	13.0 B	8 S	8.88				29.4	31	78.7	31
TOTAL	423.71		1 534.49	1 359.0		4 006.03	1 555.9		9 290.48	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	37.8	44	108	77.4	8 S	40.1	38.7	40 S	134	1
2	36.3	44 S	134	78.8	5	32.7	82.6	136 S	1 100	2
3	47.0	88 S	278	70.4	8	48.7	102	77 S	678	3
4	49.2	88 S	238	87.9	13 S	78.3	89.8	24 S	185	4
5	48.2	89 S	248	81.1 A	48 S	378	67.1	11 S	44.6	5
6	108	418 S	3 810	45.8	12 S	48.8	37.3	26 S	80.2	6
7	175	142 S	2 150	33.0	7 S	18.4	31.6	17	46.4	7
8	143	108 S	1 350	33.8	7	14.4	28.8	11 S	27.2	8
9	91.8	78 S	695	20.9	8 S	14.4	25.5	9	18.9	9
10	63.9	86 S	309	17.7	8	12.2	21.4	8	14.8	10
11	54.8	38 S	184	16.0	9 S	10.8	19.1	7 S	11.8	11
12	46.6	37 S	108	11.0	9	8.55	17.3	7	10.5	12
13	39.8	30 S	88.8	35.8 A	15 S	46.1	15.5	6 S	8.70	13
14	36.8	49 S	163	61.5	23 S	122	14.9	6	8.44	14
15	47.3	118	482	60.3	15	85.2	23.6	34 S	69.8	15
16	60.3	57 S	297	84.1	9 S	48.8	21.6	22	41.4	16
17	135 A	152 S	1 770	55.7	12	57.7	18.7	23	31.2	17
18	180	73 S	1 010	47.0	11 S	44.7	13.0	22 S	24.7	18
19	120	38 S	394	44.5	17	85.6	34.5	80 S	268	19
20	65.9	24 S	180	38.9	15	51.7	60.9	57 S	300	20
21	76.9	28 S	177	34.6	13 S	39.1	29.1	22	55.3	21
22	75.5	26 S	163	31.5	10	27.2	32.4	39 S	75.5	22
23	70.0	23 S	139	28.7	10 S	24.6	30.2	32	65.6	23
24	68.3	21 S	124	28.7	8	18.5	23	23	38.6	24
25	104 A	87 S	802	24.2	7 S	14.6	14.7	15 S	18.1	25
26	144	46 S	572	22.1	8	15.3	29.2	47	118	26
27	120	30 S	311	21.0	8	14.5	83.2	43 S	235	27
28	87.1	18 S	134	18.8	8 S	13.0	36.4	10	33.2	28
29	66.1	12	69.3	17.5	7	10.8	27.0	6 S	18.7	29
30	78.3	8 S	54.8	24.0	31 S	84.3	35.7	48 S	142	30
31				21.8	27	80.9				31
TOTAL	2 501.4		16 356.9	1 218.5		1 489.75	1 029.8		3 882.14	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	28.4	22	54.0	10.5	6 S	5.44	5.28	6	2.74	1
2	21.2	22 S	40.3	9.68	9	7.68	5.55	7	3.36	2
3	17.3	18	26.8	8.85	13 S	8.94	5.18	7 S	3.13	3
4	15.1	12 S	15.7	8.08	11	7.68	5.84	7	3.53	4
5	13.7	11	13.0	7.68	9	5.87	5.57	4 S	1.92	5
6	17.5	24 S	36.3	7.31	6 S	3.79	5.68	6	2.94	6
7	18.2	23	36.2	7.18	6	3.71	4.96	16 S	6.66	7
8	76.4	130 S	858	14.2	19 S	23.3	4.70	11	4.47	8
9	173	135 S	2 020	11.4	11	10.6	4.45	7	2.69	9
10	103	144 S	1 260	8.27	5 S	3.67	4.38	4 S	1.52	10
11	61.9	88 S	471	7.28	4	2.52	4.36	4	1.51	11
12	50.2	44 S	191	6.66	5	2.87	8.75	12 S	9.07	12
13	46.9	14 S	56.5	6.85	4 S	2.40	5.69	8	4.76	13
14	33.2	11	31.6	8.75	6	4.54	5.30	31 S	16.9	14
15	26.6	9	22.2	23.4	26 S	52.6	5.66	20	11.5	15
16	24.8	7 S	15.1	16.6	19	27.3	20.7	34 S	80.8	16
17	23.0	23	45.7	11.6	11 S	11.0	13.9	12 S	14.4	17
18	20.1	28 S	50.4	8.85	8	6.98	8.21	6	4.26	18
19	48.4	62 S	258	7.47	6	5.16	6.50	5 S	2.81	19
20	38.4	19 S	59.8	8.95	7 S	4.20	5.89	4	2.04	20
21	24.0	8 S	18.7	8.88	5	2.98	6.56	4 S	2.27	21
22	35.6	17	37.9	8.28	3 S	1.83	6.01	4	2.06	22
23	19.7	7 S	11.9	8.88	3	1.52	5.31	4	1.84	23
24	20.1	14	24.3	8.85	3 S	1.84	5.02	3 S	1.30	24
25	16.2	6 S	11.2	10.2	10	8.81	4.71	3	1.22	25
26	13.9	6	7.21	7.03	5	3.04	4.82	3 S	1.25	26
27	12.6	4 S	4.35	8.86	3 S	1.84	8.82	27	13.8	27
28	18.3	15 S	25.0	8.81	3	1.48	8.36	31 S	14.4	28
29	21.8	8	14.8	8.31	3 S	1.38	4.89	14	8.81	29
30	14.8	6 S	7.52	8.24	3	1.38	4.82	8	2.34	30
31	11.8	8	8.17	8.08	6 S	2.19				31
TOTAL	1 087.0		5 752.88	287.88		228.95	192.94		207.84	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	4.48	4 S	1.55	4.31	3	1.12	5.24	2	0.81	1
2	4.63	4	1.60	4.37	13 S	4.91	5.18	2	0.80	2
3	8.80	8 S	4.70	5.14	9	4.00	5.20	3	1.35	3
4	8.88	6	3.88	4.81	5	1.99	10.0	19 S	16.4	4
5	8.32	4 S	2.18	4.36	2	0.75	10.5	7	8.35	5
6	5.35	4	1.85	5.01	3 S	1.30	7.35	7	4.45	6
7	4.81	4	1.70	4.98	3	1.28	13.7	12 S	14.2	7
8	4.88	2 S	0.81	4.36	2	0.75	17.1	13	19.2	8
9	5.18	11	4.89	3.94	2 S	0.68	32.8	28	79.3	9
10	8.30	33 E	18.1	3.81	1	0.34	32.4	29	81.2	10
11	4.87	10	4.21	4.28	1	0.37	45.8	49 S	194	11
12	4.48	2 S	0.77	4.28	1	0.37	31.0	54 S	145	12
13	4.24	2	0.73	4.41	1 S	0.38	28.8	33 S	81.5	13
14	4.21	2	0.73	5.17	3	1.34	28.8	16 S	34.5	14
15	4.07	2 S	0.70	8.21	11	7.80	15.7	11	14.9	15
16	3.85	4	1.37	8.76	3 S	1.75	14.7	10	12.7	16
17	3.88	5	1.88	8.87	19	14.2	11.5 S	9	8.84	17
18	3.90	5	1.88	7.41	11	7.04	10.5 S	7 S	8.35	18
19	3.88	8 S	2.01	5.98	4 S	2.07	8.50 S	7	5.75	19
20	3.88	8	2.01	5.80	3	1.43	8.30 S	6	4.30	20
21	3.88	8	2.00	5.83	7 S	3.41	7.80 S	8 S	3.37	21
22	4.05	2	0.70	5.07	6	2.83	7.20 S	8	4.98	22
23	4.38	2 S	0.75	5.01	4 S	1.73	11.4 S	15	14.8	23
24	4.89	8	3.38	5.00	3	1.30	8.80 S	8 S	6.15	24
25	4.43	7	2.68	4.46	3	1.16	17.1	8	11.8	25
26	4.08	7 S	2.48	4.88	3	1.22	15.0	8	10.4	26
27	3.83	8	2.04	4.51	3 S	1.17	14.2 S	8	9.82	27
28	4.04	8	2.09	4.35	3	1.13	11.5 S	7 S	8.88	28
29	4.28	4	1.48	4.53	2	0.78	10.4 S	8	8.09	29
30	5.03	3 S	1.30	5.16	2 S	0.89	9.00 S	7	5.44	30
31	4.60	3	1.19				8.30 S	6	4.30	31
TOTAL	143.38		73.81	154.04		89.30	480.87		788.31	TOTAL

E - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 04	11:50	1.0	18.5	W	87	88.0																D49
JAN 08	09:25	3.0	17.1	W	30	88.0												55				D49
JAN 13	11:55	0.0	12.0	W	3	88.0																D49
JAN 18	15:20	0.0	8.91	W	5	88.0																D49
JAN 20	11:55	1.0	8.10	W	11	88.0																D49
JAN 25	10:20	4.0	14.0	W	8	88.0												198				D49
JAN 27	10:45	1.0	18.0	W	127	88.0																D49
JAN 31	09:20	3.0	13.0	W	5	88.0																D49
FEB 03	11:15	0.0	14.0	W	12	88.0																D49
FEB 05	12:35	1.0	40.0	W	470	88.0																D49
FEB 08	16:30	2.0	40.0	W	20	88.0																D49
FEB 08	09:10	1.0	103	W	15	88.0																D49
FEB 08	17:10	1.0	103	W	8	88.0																D49
FEB 07	10:40	0.0	85.0	W	19	88.0																D49
FEB 08	10:20	0.0	88.0	W	5	88.0																D49
FEB 09	15:35	1.0	55.0	W	3	88.0																D49
FEB 10	10:30	0.0	49.0	W	3	88.0												78				D49
FEB 13	15:10	2.0	36.0	W	12	88.0																D49
FEB 15	09:20	5.0	47.1	W	21	88.0												53				D49
FEB 16	10:50	5.0	94.0	W	42	88.0																D49
FEB 17	10:55	2.0	74.0	W	14	88.0																D49
FEB 20	10:40	3.0	37.0	W	22	88.0												70				D49
FEB 22	11:20	1.0	26.0	W	10	88.0																D49
FEB 24	10:40	5.0	28.5		6	88.0																D49
FEB 25	10:15	6.0	87.6		107	88.0												82				D49
FEB 27	09:10	3.0	44.7		15	88.0																D49
FEB 28	09:15	5.0	33.5		12	88.0																D49
MAR 02	11:00	0.0	38.5		11	88.0												75				D49
MAR 05	08:15	1.0	22.8	W	1	88.0																D49
MAR 07	11:20	2.0	18.0	W	6	88.0																D49
MAR 09	13:55	0.0	15.5	W	3	88.0																D49
MAR 13	11:00	1.0	12.5	W	2	88.0																D49
MAR 16	09:50	5.0	89.5		244	88.0																D49
MAR 16	16:10	3.0	138		183	88.0																D49
MAR 17	16:10	1.0	204		118	88.0																D49
MAR 17	19:40	4.0	183		284	88.0																D49
MAR 18	13:40	0.0	121		38	88.0																D49
MAR 19	11:30	0.0	76.5		84	88.0																D49
MAR 21	11:25	3.0	59.7		28	88.0																D49
MAR 22	14:45	5.0	85.2		89	88.0																D49
MAR 23	11:55	5.0	97.6		47	88.0												71				D48
MAR 24	09:40	1.0	87.6		33	88.0																D48
MAR 25	16:15	0.0	60.2		23	88.0																D48
MAR 26	16:00	7.0	49.4		27	88.0												70				D48
MAR 27	14:35	10.0	41.4		18	88.0																D48
MAR 28	11:00	1.0	32.5		16	88.0																D49
MAR 30	13:00	1.0	28.8		23	88.0												83				D48
APR 02	16:00	7.0	35.6		30	88.0																D48
APR 03	17:05	11.0	42.0		29	88.0																D48
APR 04	17:50	8.0	44.7		22	88.0																D49
APR 05	16:40	8.0	41.9		16	88.0												61				D49
APR 06	11:50	8.0	88.3		928	88.0																D49
APR 06	18:20	8.0	184		420	88.0																D49
APR 07	08:25	5.0	195		125	88.0																D49
APR 07	16:25	9.0	173		100	88.0																D49
APR 08	11:05	1.0	184		82	88.0																D49
APR 09	10:50	0.0	105		70	88.0																D49
APR 10	10:35	1.0	71.8		51	88.0																D49
APR 11	09:05	1.0	84.8		28	88.0																D49
APR 12	11:00	1.0	88.3		30	88.0																D49
APR 13	09:25	1.0	48.1		17	88.0																D49
APR 14	11:30	4.0	42.8		15	88.0												69				D49
APR 16	09:50	5.0	81.3		1	88.0																D49
APR 17	09:05	7.0	128		180	88.0																D49
APR 17	16:20	8.0	151		152	88.0																D49
APR 18	09:20	7.0	156		87	88.0																D49
APR 18	16:15	9.0	141		88	88.0																D49
APR 19	09:20	1.0	113		40	88.0																D49
APR 20	11:00	1.0	80.2		22	88.0																D49
APR 21	14:35	8.0	73.9		24	88.0																D49
APR 22	11:35	2.0	71.1		28	88.0																D49
APR 23	16:10	12.0	85.9		16	88.0																D49
APR 24	16:30	13.0	84.6		15	88.0																D49
APR 25	16:45	8.0	107		66	88.0																D49
APR 26	09:30	3.0	124		43	88.0																D49
APR 26	16:10	4.0	120		52	88.0																D49
APR 27	09:05	8.0	102		32	88.0																D49
APR 28	09:20	8.0	79.8		17	88.0																D49
APR 30	17:05	11.0	63.0		10	88.0																D49
MAY 01	16:05	13.0	62.4		5	88.0																D49
MAY 04	08:05	8.0	50.2		11	88.0																D49
MAY 05	09:05	7.0	51.7		61	88.0																D49
MAY 06	09:55	9.0	48.2		13	88.0																D49
MAY 07	15:10	13.0	28.2		8	88.0																D49
MAY 09	15:40	11.0	19.5		9	88.0																D49
MAY 11	14:05	13.0	27.0		9	88.0																D49
MAY 13	10:20	12.0	90.3		16	88.0																D49
MAY 14	16:00	11.0	84.8		20	88.0																D49
MAY 16	08:05	10.0	89.3		9	88.0																D49
MAY 18	08:05	9.0	46.4		12	88.0																D49
MAY 21	09:05	11.0	34.2		13	88.0																D49
MAY 23	12:50	23.0	27.6		9	88.0																D49
MAY 25	13:15	24.0	23.3		6	88.0																D49
MAY 28	08:05	13.0	18.3		7	88.0																D49
MAY 30	08:25	10.0	21.8		10	88.0																D49
JUN 01	08:45	15.0	26.9		24	88.0																D49
JUN 02	09:10	11.0	89.7		175	88.0																D49
JUN 02	16:10	12.0	118		138	88.0																D49
JUN 03	16:30	13.0	95.3		62	88.0																D49
JUN 04	14:15	15.0	67.6		18	88.0																D49
JUN 05	15:55	17.0	44.7		10	88.0																D49
JUN 06	16:20	15.0	36.1		33	88.0																D49
JUN 08	10:50	16.0	28.1		11	88.0																D49

NOTE : SINGLE VERTICAL LOCATED AT 86 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

CONTINUED

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JUN 11	12:00	20.0	19.5	7	98.0																D49
JUN 13	17:35	21.0	15.6	5	98.0																D49
JUN 15	13:10	15.0	26.1	50	98.0																D49
JUN 18	13:55	20.0	13.1	23	98.0												93				D49
JUN 19	17:40	17.0	60.2	180	98.0																D49
JUN 20	08:00	20.0	70.2	82	98.0																D49
JUN 22	08:05	19.0	23.3	47	98.0																D49
JUN 25	17:15	22.0	14.6	12	98.0																D49
JUN 27	10:55	14.0	87.6	25	98.0																D49
JUN 28	14:40	19.0	26.7	7	98.0																D49
JUN 30	14:00	19.0	72.2	48	98.0																D49
JUL 02	10:15	17.0	22.0	24	98.0												98				D49
JUL 04	14:00	23.0	15.6	11	98.0																D49
JUL 08	13:20	18.0	17.8	23	98.0																D49
JUL 08	10:50	19.0	87.6	148	98.0																D49
JUL 09	08:05	18.0	182	17	98.0																D49
JUL 09	19:00	19.0	166	228	98.0																D49
JUL 10	08:25	18.0	114	152	98.0																D49
JUL 11	15:40	21.0	59.8	84	98.0												85				D49
JUL 12	18:25	18.0	56.1	28	98.0																D49
JUL 13	08:30	19.0	49.8	15	98.0																D49
JUL 16	18:30	20.0	24.7	8	98.0																D49
JUL 18	08:30	21.0	19.8	28	98.0																D49
JUL 19	09:10	19.0	58.2	78	98.0																D49
JUL 20	08:00	18.0	38.4	21	98.0																D49
JUL 21	15:20	22.0	23.3	7	98.0																D49
JUL 23	10:35	21.0	19.7	8	98.0																D49
JUL 25	09:45	19.0	18.7	174	98.0																D49
JUL 27	08:40	17.0	12.8	5	98.0												104				D49
JUL 28	18:45	18.0	27.2	17	98.0																D49
JUL 30	09:05	20.0	14.8	7	98.0																D49
AUG 01	08:15	18.0	10.5	5	98.0																D49
AUG 03	08:50	20.0	8.89	14	98.0																D49
AUG 06	18:25	27.0	7.48	4	98.0																D49
AUG 08	09:45	20.0	18.7	19	98.0																D49
AUG 10	08:54	21.0	8.38	5	98.0																D49
AUG 13	11:00	23.0	7.12	5	98.0																D49
AUG 15	10:45	24.0	25.9	29	98.0																D49
AUG 17	10:15	21.0	11.6	10	98.0												112				D49
AUG 20	18:15	18.0	9.62	7	98.0																D49
AUG 22	14:05	24.0	5.29	3	98.0																D49
AUG 24	11:00	19.0	5.74	4	98.0																D49
AUG 27	09:30	18.0	6.00	3	98.0																D49
AUG 28	18:30	23.0	5.15	71	98.0																D49
AUG 31	12:50	22.0	4.79	5	98.0																D49
SEP 03	18:05	19.0	5.28	7	98.0																D49
SEP 05	09:45	16.0	5.38	4	98.0																D49
SEP 07	09:45	18.0	4.95	18	98.0																D49
SEP 10	17:05	18.0	4.28	3	98.0																D49
SEP 12	10:00	18.0	10.0	15	98.0																D49
SEP 14	09:40	19.0	8.00	38	98.0																D49
SEP 16	10:25	16.0	25.5	41	98.0																D49
SEP 17	15:40	15.0	12.1	8	98.0																D49
SEP 19	08:30	16.0	8.24	4	98.0																D49
SEP 21	10:35	15.0	8.73	4	98.0																D49
SEP 24	17:30	19.0	4.78	3	98.0																D49
SEP 26	15:35	15.0	4.75	208	98.0																D49
SEP 28	13:15	14.0	5.15	31	98.0																D49
OCT 01	17:15	14.0	4.28	3	98.0																D49
OCT 03	17:15	12.0	7.57	7	98.0																D49
OCT 05	07:40	8.0	5.48	4	98.0																D49
OCT 08	17:25	12.0	4.53	2	98.0																D49
OCT 10	17:10	13.0	5.15	28	98.0																D49
OCT 12	07:55	11.0	4.42	1	98.0																D49
OCT 15	07:20	7.0	4.03	1	98.0																D49
OCT 18	12:10	12.0	3.85	6	98.0																D49
OCT 23	11:05	11.0	4.21	1	98.0																D49
OCT 28	08:45	7.0	4.03	7	98.0																D49
OCT 30	09:05	4.0	5.15	3	98.0																D49
NOV 02	08:15	10.0	4.21	18	98.0																D49
NOV 05	09:10	8.0	4.75	2	98.0																D49
NOV 09	11:30	1.0	3.85	1	98.0																D49
NOV 13	09:10	11.0	4.21	1	98.0																D49
NOV 16	10:20	8.0	8.73	2	98.0																D49
NOV 18	11:35	1.0	5.24	4	98.0																D49
NOV 21	14:25	1.6	5.15	10	98.0																D49
NOV 23	13:20	1.0	4.38	4	98.0																D49
NOV 27	15:50	0.0	4.21	53	98.0																D49
NOV 30	14:35	7.0	5.15	2	98.0												159				D49
DEC 04	10:25	2.0	8.50	27	98.0																D49
DEC 07	10:40	3.0	14.9	15	98.0																D49
DEC 11	14:10		56.2	52	98.0																D49
DEC 12	15:35	5.0	25.1	50	98.0																D49
DEC 13	10:40		24.0	15	98.0																D49
DEC 14	10:50	2.0	25.1	14	98.0												99				D49
DEC 18	15:20	4.0	10.5 W	7	98.0																D49
DEC 21	14:25	2.0	7.80 W	4	98.0																D49
DEC 24	18:45	5.0	9.80 W	2	98.0																D49
DEC 28	10:15	1.0	11.5 W	7	98.0																D49

NOTE : SINGLE VERTICAL LOCATED AT 98 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

NEW BRUNSWICK

KENNEBECASIS RIVER AT APOHAQUI - STATION NO. 01AP004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1965	JUL-DEC	M-S	60	NOV 04	1	AUG 31	185	NOV 04	1 470	---	---	---
1967	JAN-DEC	M-C	185	JUL 03	0	FEB 24 *	1 480	NOV 24	31 000	85.1	85.1	---
1968	JAN-DEC	M-C	457	FEB 04	1	OCT 08	2 150	FEB 04	25 900	70.8	78.0	9.2
1969	JAN-DEC	M-C	215	JAN 19	2	JUN 16	2 340	DEC 23	19 500	53.4	69.8	13.1
1970	JAN-DEC	M-C	351	FEB 04	2	MAY 11	11 200	FEB 04	41 900	115	81.1	18.1
1971	JAN-DEC	M-C	355	NOV 26	1	OCT 24	1 800	APR 15	26 300	77.6	80.4	12.6
1972	JAN-DEC	M-C	661	OCT 06	1	FEB 05	5 850	MAY 06	43 900	120	87.0	12.2
1973	JAN-DEC	M-C	408	MAR 13	2	SEP 09	3 020	APR 29	34 400	84.2	88.0	10.2
1974	JAN-DEC	M-C	483	SEP 30	1	JUN 05	10 100	DEC 10	48 300	127	92.9	9.8
1975	JAN-DEC	M-C	191	NOV 14	3	NOV 10	3 040	NOV 14	25 000	88.4	90.2	9.5
1976	JAN-DEC	M-C	188	JAN 26	3	SEP 26	4 390	JAN 26	34 800	95.1	90.7	8.4
1977	JAN-DEC	M-C	249	OCT 09	5	FEB 13	3 370	DEC 26	45 700	125	93.8	8.1
1978	JAN-DEC	M-C	137	APR 20	3	DEC 31	1 810	APR 21	23 800	84.8	91.4	8.0
1979	JAN-DEC	M-C	427	APR 10	2	OCT 31	7 850	JAN 03	52 400	171	97.5	9.4
1980	JAN-DEC	M-C	232	APR 05	1	FEB 03	1 930	APR 05	19 800	53.5	84.3	9.8
1981	JAN-DEC	M-C	781	OCT 08	3	JUL 31	11 500	FEB 12 *	89 200 *	190	101	10.4
1982	JAN-DEC	M-C	200	APR 01	2	MAY 28	2 180	APR 01	23 700	84.8	96.5	10.3
1983	JAN-DEC	M-C	144	DEC 14	3	FEB 23	2 200	DEC 14	24 700	87.7	96.7	10.0
1984	JAN-DEC	M-C	928	APR 08 *	1	MAR 05	3 810	APR 08	43 700	118	97.8	8.4

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

LITTLE SOUTHWEST MIRAMICHI RIVER AT LYTTLETON - STATION NO. 01BP001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-JUN MEAN LOAD (TONNES)	SUMMARY : MAY-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-JUN HISTORICAL STANDARD ERROR OF MEAN %
1975	APR-JUL	M-S	84	MAY 02 *	8	JUL 02 *	696	MAY 13 *	11 100 *	158	159	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 46 19 36 N LONG 67 01 17 W
DRAINAGE AREA: 3.89 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 7.66 TONNES FOR THE PERIOD APR 01 TO OCT 31

REMARKS:

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	0.081	1	0.01	0.347	5	0.15	0.580 A	3 S	0.15	1
2	0.103	2	0.02	0.228	2	0.04	0.760 E	2	0.13	2
3	0.131	2	0.02	0.182	2	0.03	0.500 E	1	0.04	3
4	0.159	3	0.04	0.202	5	0.08	0.330 E	1	0.03	4
5	0.164	2	0.03	0.345	2	0.05	0.260 E	1	0.02	5
6	0.423	11	0.40	0.330 E	2	0.06	0.230 E	1	0.02	6
7	1.15 B	5	0.50	0.295 E	1	0.03	0.180 E	1	0.02	7
8	0.671	2	0.12	0.270 E	1	0.02	0.180 E	1	0.01	8
9	0.388	2	0.07	0.288 E	2	0.05	0.135 E	1	0.01	9
10	0.279	1	0.02	0.260 E	1	0.02	0.110 E	1	0.01	10
11	0.261	2	0.05	0.235 E	1	0.02	0.108 E	1	0.01	11
12	0.267	1	0.02	0.500 E	1	0.04	0.092 E	1	0.01	12
13	0.225	2	0.04	0.850 E	2	0.11	0.088 A	3 S	0.02	13
14	0.383	5	0.17	0.430 A	2 S	0.07	0.092	3	0.02	14
15	0.531	4	0.18	0.345	3 S	0.09	0.188	8 S	0.09	15
16	0.810	5	0.28	0.245	2	0.04	0.125 A	2	0.02	16
17	1.04	5 S	0.45	0.183	2	0.03	0.089 E	2	0.01	17
18	0.704	1	0.06	0.158	1	0.01	0.080 E	2	0.02	18
19	0.586	1	0.05	0.134	1	0.01	0.550 E	10 S	0.48	19
20	0.547	3	0.14	0.123	1	0.01	0.420 E	2	0.07	20
21	0.582	1	0.05	0.140	2	0.02	0.190 E	2	0.03	21
22	0.410	1	0.04	0.111	1	0.01	0.133 A	2 S	0.02	22
23	0.586	4	0.20	0.097	1	0.01	0.116	2	0.02	23
24	0.681	1	0.06	0.095	1	0.01	0.084	1	0.01	24
25	0.784	2	0.13	0.078	1 S	0.01	0.082	1	0.01	25
26	0.509	1 S	0.04	0.078	2 S	0.01	0.347	17 S	0.51	26
27	0.432	1	0.04	0.103	1	0.01	0.513	10	0.44	27
28	0.380	1	0.03	0.083	1	0.01	0.253	1	0.02	28
29	0.315	1	0.03	0.116	6 S	0.06	0.186	1 S	0.02	29
30	0.287	1	0.02	0.803	6 S	0.31	0.152	1	0.01	30
31				0.493	1 S	0.04				31
TOTAL	13.616		3.39	7.743		1.48	7.083		2.28	TOTAL

DAY	JUL DAILY DISCHARGE (m³/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m³/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m³/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.122	1	0.01	0.030	1	0	0.022	1	0	1
2	0.084	1	0.01	0.027	1	0	0.017	1	0	2
3	0.079	1	0.01	0.024	1	0	0.013	1	0	3
4	0.070	1	0.01	0.021	1	0	0.013	1	0	4
5	0.125	2	0.02	0.021	1	0	0.012	1	0	5
6	0.133	1	0.01	0.019	1	0	0.010	1	0	6
7	0.108	2 S	0.02	0.018	1	0	0.010	1	0	7
8	0.288	3	0.07	0.018	1	0	0.008	1	0	8
9	0.294	2	0.05	0.018	1	0	0.008	1	0	9
10	0.205	2	0.04	0.017	1	0	0.008	1	0	10
11	0.128	1	0.01	0.018	1	0	0.010	1	0	11
12	0.201	3	0.05	0.018	1	0	0.032	3	0.01	12
13	0.135	1	0.01	0.018	1	0	0.015	1	0	13
14	0.098	1	0.01	0.020	1	0	0.012	1	0	14
15	0.088	2	0.02	0.038	2	0.01	0.010	1	0	15
16	0.133	1	0.01	0.070	2	0.01	0.012	2	0	16
17	0.087	1	0.01	0.026	1	0	0.011	2	0	17
18	0.073	2 S	0.01	0.021	1	0	0.010	2 S	0	18
19	0.115	3 S	0.03	0.017	1	0	0.010	2	0	19
20	0.084	2	0.01	0.021	2	0	0.013	2	0	20
21	0.088	1	0	0.022	1	0	0.028	3	0.01	21
22	0.068	1	0	0.018	1	0	0.013	2	0	22
23	0.062	1	0	0.018	1	0	0.012	1	0	23
24	0.086	3	0.02	0.027	2	0	0.011	1	0	24
25	0.049	1	0	0.020	1	0	0.011	1	0	25
26	0.042	1	0	0.014	1	0	0.023	3	0.01	26
27	0.049	1	0	0.012	1	0	0.021	1	0	27
28	0.093	2	0.02	0.011	1	0	0.013	1	0	28
29	0.055	1	0	0.010	1 S	0	0.012	1	0	29
30	0.039	1	0	0.011	1	0	0.012	1	0	30
31	0.032	1	0	0.018	2	0				31
TOTAL	3.264		0.48	0.848		0.02	0.413		0.03	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

SUSPENDED SEDIMENT FOR 1984

OCT

DAY	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m^3/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.011	1	0							1
2	0.013	1	0							2
3	0.047	3	0.01							3
4	0.035	3	0.01							4
5	0.023	1	0							5
6	0.018	1	0							6
7	0.015	1	0							7
8	0.014	1	0							8
9	0.015	1	0							9
10	0.014	1	0							10
11	0.011	1	0							11
12	0.011	1	0							12
13	0.011	1	0							13
14	0.011	1	0							14
15	0.011	1	0							15
16	0.010	1	0							16
17	0.010	1	0							17
18	0.010	1 S	0							18
19	0.010	1	0							19
20	0.011	1	0							20
21	0.010	1	0							21
22	0.017	2	0							22
23	0.015	1	0							23
24	0.011	1	0							24
25	0.011	1	0							25
26	0.010	1	0							26
27	0.010	1	0							27
28	0.013	2	0							28
29	0.015	1	0							29
30	0.011	1	0							30
31	0.011	1 S	0							31
TOTAL	0.447		0.02							TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
APR 17	12:00	3.0	1.04	4	MID												27				DIP
APR 26	11:00	3.0	0.804	1	MID																DIP
MAY 14	10:44	5.0	0.293	1	MID																DIP
MAY 15	10:30		0.425	5	10LB																SURF
MAY 25	09:55	8.0	0.103	1	MID																DIP
MAY 28	22:20		0.135	7	10LB																SURF
MAY 29	20:40		0.243	19	10LB																SURF
MAY 29	23:59		0.425	18	10LB																SURF
MAY 30	07:40		0.711	9	10LB																SURF
MAY 31	09:37	8.0	0.532	2	MID																DIP
JUN 01	08:00		0.711	5	10LB																SURF
JUN 13	08:20	13.0	0.062	2	MID																DIP
JUN 15	00:45		0.135	45	10LB																SURF
JUN 15	03:40		0.243	10	10LB																SURF
JUN 15	03:45		0.425	23	10LB																SURF
JUN 15	04:45		0.711	19	10LB																SURF
JUN 22	09:00	12.0	0.133	2	MID																DIP
JUN 26	08:40		0.135	4	10LB																SURF
JUN 26	13:00		0.243	5	10LB																SURF
JUN 26	15:50		0.425	31	10LB																SURF
JUN 26	20:10		0.711	37	10LB																SURF
JUN 29	09:12	11.0	0.183	1	MID																DIP
JUL 07	22:00		0.243	7	10LB																SURF
JUL 18	08:30	13.0	0.072	2	MID																DIP
JUL 18	00:35		0.135	10	10LB																SURF
AUG 28	08:17	15.0	0.011	1	MID																DIP
SEP 16	08:23	7.0	0.009	2	MID																DIP
OCT 18	10:08	3.0	0.010	1	MID																DIP
OCT 31	07:39	3.0	0.011	1	MID																DIP

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN - STATION NO. 01AL004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-OCT MEAN LOAD (TONNES)	SUMMARY : APR-OCT HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-OCT STANDARD ERROR OF MEAN %
1974	APR-OCT	B-S	13	AUG 04	1	JUL 11 *	1.38	MAY 01	8.89		---	---	---
1975	APR-OCT	B-S	5	MAY 01	1	MAY 05	0.43	MAY 11	3.10		---	---	---
1976	APR-OCT	B-S	10	JUL 12	1	APR 15	2.18	AUG 10	12.8		0.06	0.06	---
1977	APR-OCT	B-S	17	JUN 20	3	SEP 01	1.29	JUN 05	20.6	*	0.10	0.06	25.0
1978	APR-SEP	B-S	36	JUN 08	1	MAY 11	0.41	JUN 08	8.40		---	---	---
1979	MAR-OCT	B-S	33	AUG 13	1	MAY 02	1.06	AUG 13	11.0		0.05	0.07	21.8
1980	APR-OCT	M-S	24	APR 11	1	MAY 11	1.76	APR 11	5.28		---	---	---
1981	APR-OCT	M-S	20	SEP 19	1	APR 28	0.83	APR 05	9.22		0.05	0.07	17.5
1982	APR-OCT	M-S	24	JUN 03	1	AUG 19	1.00	APR 18	5.75		0.05	0.05	18.2
1983	APR-OCT	M-S	32	APR 17	1	APR 15	2.80	APR 18	9.39	*	0.05	0.06	13.6
1984	APR-OCT	M-S	46	JUN 15 *	1	APR 28	0.50	APR 07	5.55		0.04	0.05	12.8

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NORTH NASHWAAKSIS STREAM NEAR ROYAL ROAD - STATION NO. 01AK005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1965	DEC-DEC	M-S	24	DEC 19	18	DEC 17	1.51	DEC 05	12.7		---	---	---
1966	JAN-DEC	M-C	55	NOV 04	1	APR 30	18.2	NOV 04	91.0		0.25	0.25	---
1967	JAN-DEC	M-C	76	MAY 12	0	JAN 28 *	28.8	MAY 12	185		0.51	0.38	34.2
1968	JAN-DEC	M-C	23	MAR 31	1	APR 21	5.01	FEB 04	113		0.31	0.25	21.4
1969	JAN-DEC	M-C	48	DEC 11	1	JAN 19	15.4	DEC 11	149		0.41	0.37	15.4
1970	JAN-DEC	M-C	53	FEB 04	1	JAN 28	49.9	FEB 04	231		0.64	0.42	16.6
1971	JAN-DEC	M-C	58	JUL 01	0	JUN 24	19.5	MAY 04	153		0.42	0.42	13.6
1972	JAN-DEC	M-C	43	MAY 04	0	JAN 02	23.8	MAY 04	135		0.37	0.42	11.6
1973	JAN-DEC	M-C	128	APR 28 *	0	SEP 30	157	APR 29 *	447	*	1.23	0.52	21.2
1974	JAN-DEC	M-C	38	JUL 01	1	JAN 13	22.3	APR 30	218		0.60	0.53	18.4
1975	JAN-DEC	M-C	33	NOV 13	0	SEP 01	14.1	NOV 14	113		0.31	0.51	17.5
1976	JAN-DEC	M-C	41	APR 03	1	FEB 29	23.8	APR 03	169		0.46	0.50	16.3
1977	JAN-DEC	M-C	21	OCT 02	0	SEP 11	8.48	OCT 02	131		0.36	0.49	15.4
1978	JAN-DEC	M-C	27	APR 14	1	FEB 19	8.33	JAN 10	88.8		0.25	0.47	15.2

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NORTH NASHWAAKSIS STREAM NEAR ROYAL ROAD - STATION NO. 01AK005

MONTHLY AND ANNUAL TOTAL VOLUMETRIC BED LOAD IN CUBIC METRES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	YEAR
1967	0	0	0	5	0	0	0	0	0	0	3.8	0	3.8	1967
1968	0	0	0	1.5	0	0	0	0	0	0	0	0	1.5	1968
1969	0	0	0	0	0	0	0	0	0	0	0	0	0.0	1969
1970	---	0.2	---	---	---	---	---	---	---	---	---	---	---	1970
1978	0	0	1.1	4.2	0.6	0	0.6	0	0	0	0	0	6.9	1978
MEAN	0	0	0.3	1.4	0.2	0	0.2	0	0	0	1.0	0	3.1	MEAN

BED LOAD MEASURED BY VOLUMETRIC METHOD. MONTHLY DISTRIBUTION ESTIMATED.

NEW BRUNSWICK

NORTHWEST MIRAMICHI RIVER AT TROUT BROOK - STATION NO. 01BO001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MAY-JUN MEAN LOAD (TONNES)	SUMMARY : MAY-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-JUN STANDARD ERROR OF MEAN %
1975	APR-JUL	M-S	42 MAY 07 *	2 MAY 26 *	535 MAY 13 *	5 280 *	79.1	79.1	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

PALMERS CREEK NEAR DORCHESTER - STATION NO. 01BU004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	DEC-DEC	M-S	28 DEC 13	8 DEC 14	19.0 DEC 13	51.4	---	---	---
1968	JAN-DEC	M-C	53 MAR 24	0 APR 18 *	53.7 NOV 13	549	1.50	1.50	---
1969	JAN-DEC	M-C	83 APR 10	2 APR 22	78.0 DEC 23	313	0.89	1.18	27.1
1970	JAN-DEC	M-C	111 APR 25	0 SEP 15	37.3 APR 03	305	0.84	1.07	20.3
1971	JAN-DEC	M-C	171 APR 03 *	0 JUL 05	44.7 APR 13	555	1.52	1.18	18.2
1972	JAN-DEC	M-C	83 MAY 05	1 FEB 03	141 MAY 04 *	953 *	2.61	1.47	21.9
1973	JAN-DEC	M-C	125 AUG 05	1 JUL 27	49.9 AUG 05	392	1.08	1.40	19.3
1974	JAN-DEC	M-C	47 MAR 08	3 JAN 13	113 NOV 28	551	1.51	1.42	18.1

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

PETITCODIAC RIVER NEAR PETITCODIAC - STATION NO. 01BU002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)	SAMPLED CONCENTRATION MINIMUM (mg/L)	SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	DEC-DEC	M-S	84 DEC 28	4 DEC 21	141 DEC 13	778	---	---	---
1968	JAN-DEC	M-C	78 JAN 03	1 DEC 28 *	384 NOV 13	4 650	12.7	12.7	---
1969	JAN-DEC	M-C	49 DEC 23	2 JUN 26	268 DEC 23	2 790	7.58	10.2	24.7
1970	JAN-DEC	M-C	61 MAR 28	1 MAR 02	178 OCT 25	2 380	6.47	8.84	21.4
1971	JAN-DEC	M-C	107 NOV 28	1 JAN 02	376 APR 15	4 380	12.0	9.71	15.0
1972	JAN-DEC	M-C	108 MAR 28	1 NOV 15	557 MAY 04	5 730	15.6	10.8	15.4
1973	JAN-DEC	M-C	71 JUL 08	1 MAR 22	533 JUL 08	3 900	10.7	10.8	12.6
1974	JAN-DEC	M-C	136 APR 04	1 JUL 24	780 DEC 09	7 590	20.8	12.3	14.9
1975	JAN-DEC	M-C	174 APR 18	1 OCT 08	672 APR 20	6 330	17.3	12.9	13.2
1976	JAN-DEC	M-C	135 MAR 21	3 SEP 18	742 JAN 28	6 770	18.5	13.5	12.1
1977	JAN-DEC	M-C	73 DEC 28	4 FEB 27	333 APR 23	5 380	17.5	13.9	10.9
1978	JAN-DEC	M-C	79 APR 20	1 JUN 18	455 APR 21	3 640	9.98	13.6	10.4
1979	JAN-DEC	M-C	178 APR 10	1 JUL 27	1 080 JAN 03 *	10 200 *	27.5	14.8	11.9
1980	JAN-DEC	M-C	128 APR 05	1 MAY 25	589 APR 04	5 510	15.0	14.8	10.8
1981	JAN-DEC	M-C	180 FEB 12 *	1 JAN 18	885 FEB 12	8 800	23.8	15.4	10.8
1982	JAN-DEC	M-C	105 APR 18	2 FEB 20	728 APR 18	4 870	13.8	15.3	9.9
1983	JAN-DEC	M-C	90 FEB 04	4 SEP 12	491 DEC 15	5 380	14.7	15.2	9.3

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEW BRUNSWICK

RENOUS RIVER AT MCGRAW BROOK - STATION NO. 01BO002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : MAY-JUN MEAN LOAD (TONNES)	SUMMARY : MAY-JUN HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-JUN STANDARD ERROR OF MEAN %
1975	APR-JUL	M-S	11	MAY 07 *	1	JUN 20 *	113	MAY 13 *	1 280	*	20.1	20.1	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

SAINT JOHN RIVER BELOW MACTAQUAC - STATION NO. 01AK004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : STANDARD ERROR OF MEAN %
1966	JAN-DEC #	M-S	140	NOV 29 *	7	OCT 05	14 500	NOV 05	434 000		---	---	---
1967	JAN-NOV	M-S	75	MAY 28	1	AUG 24 *	28 100	MAY 05 *	434 000	*	---	---	---
1968	APR-MAY	M-S	15	APR 27	4	MAY 19	5 110	APR 27	39 700		---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 46 44 10 N LONG 65 49 38 W
DRAINAGE AREA: 5 050 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 30 889.01 TONNES FOR THE PERIOD APR 01 TO DEC 31

REMARKS:

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	78.0 B	12	80.9	886	8 S	675	588	10	489	1
2	78.0 B	15	101	1 020	13 S	1 150	805	34	2 380	2
3	85.0 B	17	125	794	8 S	412	980	12	1 020	3
4	100 B	17	147	808	4 S	209	718	5	310	4
5	115 B	17	169	895	10 S	800	480	4	166	5
6	140 B	15	194	780	4 S	263	382	3	93.8	6
7	170 B	21	455	824	2 S	108	288	3	74.6	7
8	270 B	60	1 400	838	2 S	82.6	250	3	64.8	8
9	315 B	33	898	457	3 S	128	222	2	38.4	9
10	300 B	20	518	521	4 S	180	193	2	33.4	10
11	280 B	14	314	468	3 S	122	188	2	29.0	11
12	240 B	11	228	403	4 S	138	152	2	26.3	12
13	235 B	10	203	521	17 S	765	139	2	24.0	13
14	240 B	10	207	831	8 S	273	144	2	24.9	14
15	300 B	10	259	532	3 S	138	172	6	89.2	15
16	375 B	9	292	465	2 S	80.4	203	6	105	16
17	550 B	11	523	384	2 S	66.4	173	2	29.9	17
18	720 B	20	1 240	324	7 S	198	142	2	24.5	18
19	920 B	9	715	279	8 S	145	142	2	24.5	19
20	1 000 B	8	891	244	4 S	84.3	270	17	397	20
21	828	8	432	221	3 S	57.3	254	4	87.8	21
22	553	8 S	382	209	2 S	36.1	196	2	33.9	22
23	617	10 S	447	195	4 S	67.4	183	2	28.2	23
24	685	11 S	632	180	3 S	46.7	147	2	25.4	24
25	825	21 S	1 500	168	5 S	72.8	128	2	22.1	25
26	880	12 S	812	157	8	108	121	2	20.9	26
27	720	8 S	373	152	5 S	65.7	229	16	317	27
28	730	8 S	315	150	8 S	77.8	328	8	253	28
29	784	8 S	412	139	8	86.1	248	3	64.3	29
30	804	7 S	486	288	18	414	198	2	34.2	30
31				530	11	504				31
TOTAL	13 804.0		14 850.9	13 540		7 374.4	8 579		8 311.1	TOTAL

	JUL			AUG			SEP			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	175	2	30.2	56.4	2	10.1	38.3	6	19.9	1
2	151	2	26.1	51.3	3	13.3	83.1	11	80.0	2
3	130	2	22.5	46.4	3	11.8	63.4	7	38.3	3
4	115	2	19.9	43.9	3	11.4	50.3	4	17.4	4
5	107	2	18.5	42.3	2	7.31	40.5	2	7.00	5
6	125	2	21.6	40.3	2	6.95	35.8	2	6.38	6
7	128	2	22.1	41.2	2	7.12	33.7	2	5.82	7
8	117	2	20.2	57.8	4	25.0	30.7	2	5.30	8
9	155	6	80.9	53.8	4	22.0	29.0	3	7.52	9
10	187	3	48.5	56.1	2	9.89	26.7	3	6.92	10
11	157	2	27.1	47.4	2	8.19	26.2	3	6.79	11
12	130	2	22.5	44.2	3	11.5	27.6	3	7.15	12
13	126	4	47.0	41.6	3 S	10.8	29.4	3	7.62	13
14	132	2	22.8	38.1	3	10.1	30.2	4	10.4	14
15	111	2	19.2	40.2	3	10.4	28.5	3	7.39	15
16	100	2	17.3	51.5	3	13.3	28.2	3	7.31	16
17	104	2	18.0	57.6	3	14.9	27.1	3 S	7.02	17
18	101	2	17.5	48.7	3	12.6	26.1	3	6.77	18
19	107	2	18.5	41.6	3	10.8	24.4	3	6.32	19
20	105	2	18.2	36.9	3	9.56	24.1	3	6.25	20
21	80.4	2	15.6	35.4	3	9.18	25.9	3	6.71	21
22	77.6	2	13.4	34.7	3	8.99	29.1	3	7.54	22
23	70.0	2	12.1	32.6	3	8.42	32.5	3	8.42	23
24	66.6	2	11.5	33.7	3	8.74	31.0	3	8.04	24
25	69.5	2	12.0	41.4	3	10.7	28.2	3	7.31	25
26	66.3	2	11.5	40.7	3	10.5	26.0	3	6.74	26
27	57.2	2	8.86	35.9	3	9.31	24.6	3	6.38	27
28	59.7	2	10.3	32.0	3	8.29	25.6	3	6.64	28
29	82.1	5	35.5	29.7	2	5.13	27.5	3	7.13	29
30	78.7	3	20.7	28.1	3	7.28	25.6	3	6.69	30
31	67.5	2	11.7	27.0	2	4.67				31
TOTAL	3 386.2		703.38	1 320 2		336.04	880.5		319.14	TOTAL

B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BO001

SUSPENDED SEDIMENT FOR 1984

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	23.9	3	6.19	21.2	3	5.50	29.0 B	1 S	2.61	1
2	22.8	3	5.91	20.4	3	5.28	31.0 B	1 S	2.68	2
3	26.4	3	6.84	20.3	3	5.28	29.0 B	1 S	2.61	3
4	32.3	3	8.37	20.5	4	7.08	28.0 B	1 S	2.35	4
5	35.8	3	9.31	21.3	3	5.62	24.0 B	1	2.07	5
6	37.2	3	9.64	23.8	3	6.17	21.5 B	2	3.72	6
7	36.1	3	9.36	24.0	3	6.22	21.3	3	5.52	7
8	32.8	3	8.53	22.6	3	5.81	21.5 B	3	5.97	8
9	31.0	3	8.04	20.2	3	5.24	22.0 B	3	6.84	9
10	28.5	3	7.85	18.8	3	4.87	26.0 B	3	6.48	10
11	29.3	3	7.59	20.6	3	5.34	28.0 B	3	7.26	11
12	28.6	3	7.39	24.6	3	6.38	24.0 B	2	5.68	12
13	27.7	3	7.18	40.3	6 S	20.9	33.0 B	2	8.70	13
14	25.7	3	6.66	101	27 S	238	32.0 B	2	8.53	14
15	24.8	3	6.43	98.8	13 S	109	31.5 B	2	8.44	15
16	24.5	3	6.35	89.1	6 S	47.8	31.0 B	3	8.04	16
17	23.7	3	6.14	85.6	5 S	24.1	31.0 B	2	5.36	17
18	22.8	3	5.91	45.0 B	6 S	23.3	32.5 B	2	5.82	18
19	22.3	3	5.78	35.0 B	12	36.3	33.5 B	1	2.89	19
20	22.3	3	5.78	31.0 B	9 S	24.1	32.0 B	2	5.53	20
21	21.6	3	5.65	29.4	3	7.82	30.5 B	2	5.27	21
22	21.6	3	5.65	28.0 B	4 S	9.68	29.0 B	1	2.61	22
23	22.8	3	5.94	27.0 B	3	7.00	29.0 B	1	2.61	23
24	22.7	3	5.88	26.5 B	3 S	6.87	28.5 B	2	5.10	24
25	22.6	3	5.86	25.5 B	3	6.61	31.0 B	1	2.68	25
26	21.7	3	5.62	25.0 B	4	8.64	33.0 B	1	2.85	26
27	20.8	3	5.39	24.5 B	8	12.7	34.0 B	1	2.94	27
28	20.7	3	5.37	28.0 B	5 S	10.8	32.0 B	1	2.78	28
29	21.0	3	5.44	28.0 B	3	8.74	30.5 B	2	5.27	29
30	21.8	3	5.66	27.0 B	2	6.67	29.0 B	1	2.61	30
31	21.5	3	5.57				28.0 B	1	2.42	31
TOTAL	789.0		207.10	998.4		671.81	805.3		133.34	TOTAL

NEW BRUNSWICK

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BD001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
APR 22	17:50	3.8	474	7	MID																D48
APR 23	19:12	5.5	483	10	MID												30				D48
APR 24	16:30	8.4	837	11	MID																D48
APR 25	17:55	2.7	806	18	MID																D48
APR 26	16:47	3.8	761	10	MID																D48
APR 27	16:55	5.5	630	9	MID																D48
APR 28	16:52	5.5	677	8	MID																D48
APR 29	19:19	7.2	738	8	MID																D48
APR 30	16:30	7.7	818	7	MID																D48
MAY 01	19:38	7.7	823	9	MID												40				D48
MAY 02	19:48	8.7	818	9	MID																D48
MAY 03	18:27	7.7	723	5	MID																D48
MAY 04	18:49	5.0	577	3	MID																D48
MAY 05	19:23	3.3	800	5	MID																D48
MAY 06	19:37	5.0	717	3	MID																D48
MAY 07	18:42	7.7	584	2	MID																D48
MAY 08	19:30	8.3	518	2	MID																D48
MAY 09	19:29	8.8	507	3	MID																D48
MAY 10	20:51	8.3	524	4	MID												53				D48
MAY 11	20:25	8.8	438	3	MID																D48
MAY 12	19:30	8.8	395	4	MID																D48
MAY 13	19:33	9.4	847	9	MID																D48
MAY 14	19:00	9.4	595	4	MID																D48
MAY 15	20:15	9.4	514	2	MID																D48
MAY 16	20:17	8.8	438	2	MID																D48
MAY 17	18:58	9.4	368	2	MID																D48
MAY 18	21:25	8.3	298	8	MID																D48
MAY 19	21:40	10.5	259	3	MID																D48
MAY 20	19:32	13.3	228	5	MID																D48
MAY 21	19:25	13.9	214	1	MID																D48
MAY 22	20:15	14.4	206	3	MID																D48
MAY 23	21:00	11.1	180	4	MID																D48
MAY 24	20:25	15.5	75.6	3	MID																D48
MAY 25	20:15	15.5	183	8	MID																D48
MAY 27	10:47	15.5	180	14	MID																D48
MAY 27	20:10	16.3	153	4	MID																D48
MAY 28	20:38	15.5	147	9	MID																D48
AUG 13	09:30	16.0	37.3	3	MID												40				D48
SEP 17	16:36	14.4	23.3	3	MID																D48
NOV 13	15:12	5.3	48.0	8	MID																D48
NOV 14	17:47	5.5	117	19	MID												46				D48
NOV 15	17:24	5.0	83.2	8	MID																D48
NOV 16	17:26	4.4	72.2	4	MID																D48
NOV 17	17:41	3.8	61.4	4	MID																D48
NOV 18	11:28	1.1	48.5	13	MID																D48
NOV 21	18:01	0.5	31.6	2	MID																D48
NOV 23	15:28	0.5	38.1	2	MID												57				D48
NOV 27	15:30	1.7	31.5	5	MID																D48
NOV 30	15:38	2.7	40.0	2	MID																D48
DEC 01	15:52	2.7	39.5	1	MID																D48
DEC 02	17:25	2.7	43.5	1	MID																D48
DEC 03	17:11	2.7	39.5	1	MID																D48
DEC 04	17:28	1.1	36.4	1	MID																D48

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE - STATION NO. 01BD001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1975	APR-JUL	M-S	27	MAY 08 *	2	JUL 11	1 830	MAY 08	13 800	---	---	---
1984	APR-DEC	M-S	19	NOV 14	1	MAY 21 *	2 360	JUN 02 *	30 700 *	112	112	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 48 34 31 N LONG 58 21 48 W
DRAINAGE AREA: 640 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 8 868.85 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	16.2 B	7	9.80	10.7 B	7	6.47	17.2	8	11.9	1
2	15.2 B	7	9.19	10.0 B	7	6.05	17.8	8	12.4	2
3	14.2 B	7	8.58	9.40 B	7	5.68	16.9	8	11.7	3
4	13.5 B	7	8.16	8.80 B	7	5.38	15.7	8	10.9	4
5	13.0 B	7	7.88	32.0 B	8	22.1	14.5	8 S	10.0	5
6	30.0 E	8	20.7	88.5	20 S	153	13.7 B	8	9.47	6
7	59.2	13	66.5	69.0	11	55.1	13.0 B	8	8.99	7
8	44.8	11	42.7	45.1	11	42.8	12.3 B	8	8.50	8
9	33.6	12	34.8	36.0	11	34.2	11.6 B	8	8.02	9
10	28.0	12	29.0	31.4	8	24.4	10.9 B	8	8.48	10
11	25.1	12	26.0	25.1 B	9 S	20.3	10.3 B	8	8.01	11
12	20.7 A	12 S	21.5	23.6 B	8	16.2	9.80 B	8	7.70	12
13	18.7 B	11	17.8	21.2 B	5	9.16	9.30 B	8	7.23	13
14	16.6 B	10	14.5	19.6 B	2 S	3.42	8.80 B	8	8.16	14
15	15.0 B	9	11.7	24.5	1	2.12	8.60 B	8	6.81	15
16	13.3 B	8	9.19	83.2	16	101	8.10 B	9 S	8.30	16
17	12.0 B	7 S	7.26	49.5	11	47.0	14.0 B	8	9.68	17
18	10.9 B	7	6.59	37.6	11	36.7	18.8 B	7	11.4	18
19	9.80 B	7	5.93	30.9	11	28.4	19.0 B	8	7.78	19
20	8.80 B	7	5.32	27.3	11 S	26.9	17.2 B	3 S	4.46	20
21	8.30 B	7	5.02	24.5	10	21.3	16.7 B	7	10.1	21
22	7.80 B	7	4.78	22.7	10	18.6	18.7	10	17.0	22
23	7.30 B	7	4.42	20.8	10	18.0	30.1	10	26.0	23
24	8.88 B	8 S	5.40	19.4	10	18.6	38.4	11	34.8	24
25	9.30 B	8	6.43	19.5	9	16.2	31.1	12	32.2	25
26	11.0 B	8	7.60	19.0	9	14.8	25.2	12 S	28.1	26
27	13.2 B	8	9.12	17.6	9	13.7	22.1	13	24.8	27
28	15.3 B	8	10.6	16.3	9	12.7	21.4	13	24.0	28
29	13.8 B	8	9.54	15.8	9	12.4	19.6	12	20.5	29
30	12.5 B	8	8.64				18.8	12	19.3	30
31	11.7 B	7	7.08				17.5	12	18.1	31
TOTAL	536.15		461.72	850.40		780.99	525.30		428.38	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	16.2	12	16.6	90.0	15	117	33.7	13	37.8	1
2	15.6	13 S	16.2	103	15	133	50.1	15	64.9	2
3	14.8	11	14.2	85.0	13 S	98.5	76.0	10 S	67.4	3
4	14.2	11	13.5	77.7	10 S	87.1	68.5	18 S	122	4
5	13.7	10	11.8	78.4	9	81.7	66.3	14 S	82.8	5
6	13.5	10	11.7	86.9	13	99.8	61.0	15	79.1	6
7	43.5	18	67.7	72.7	11 S	88.1	52.5	15	68.0	7
8	73.1	18	116	70.7	12	73.3	45.8	14	55.4	8
9	46.7	10	40.3	89.6	12	72.2	45.4	15	58.8	9
10	33.2	5 S	14.3	76.7	12 S	81.8	41.3	15	53.5	10
11	30.0	3	7.78	76.6	12	81.5	35.8	13 S	40.2	11
12	28.8	3	7.46	60.3	12	83.3	52.5	14	61.5	12
13	28.3	2	4.84	78.7	11	75.7	38.7	16	54.9	13
14	25.1	3	8.51	78.8	7 S	47.7	33.1	15	42.9	14
15	25.0	5	10.8	137	15	169	30.5	14	36.9	15
16	28.4	7	17.2	130	21 S	236	30.4	13 S	34.1	16
17	35.7	11 S	33.9	83.5	18 S	129	28.4	12	27.4	17
18	73.9	20 S	128	80.6	13	90.4	22.8	11	21.7	18
19	81.0	15	86.1	78.6	11 S	75.7	20.7	9	16.1	19
20	48.0	14	55.6	83.7	14	113	41.6	33	82.6	20
21	46.1	13	49.6	78.0	12	80.8	31.1	27	72.8	21
22	37.8	11	35.8	89.8	16 S	98.8	33.8	24	47.3	22
23	33.3	10	26.7	89.5	15	77.1	19.5	22	37.1	23
24	30.8	9 S	24.0	85.7	15	72.2	17.8	21	32.3	24
25	33.4	9	26.0	80.7	15	66.7	16.3	19 S	26.8	25
26	32.5	10	26.1	42.0	14	50.6	15.0	19	24.8	26
27	33.7	10	29.1	35.8	14	43.4	14.8	18	23.2	27
28	48.4	13	52.1	31.2	13 S	35.0	14.5	17	21.3	28
29	56.8	14	66.8	26.2	13	28.4	13.8	16	18.8	29
30	71.8	14 S	86.8	24.4	13	27.4	12.9	15	16.7	30
31				25.3	13 S	29.6				31
TOTAL	1 078.8		1 067.38	2 247.3		2 588.7	1 078.4		1 448.8	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	12.4	14	15.0	8.54	11	8.07	13.9	13	15.6	1
2	11.9	13 S	13.4	8.53	11 S	8.08	85.5	29	222	2
3	11.8	11	11.0	8.31	11	8.85	80.2	13 S	87.8	3
4	10.9	11	10.4	8.78	11	8.34	38.9	11	37.0	4
5	13.6	10	11.8	8.18	11	7.77	32.4	11	30.8	5
6	27.0	12	28.0	7.87	11	7.48	31.1	11	29.8	6
7	21.9	8 S	18.1	7.37	11 S	7.00	28.4	11	27.8	7
8	18.8	7	10.0	8.85	11	8.41	25.0	11	23.8	8
9	14.3	7	8.85	8.87	11	8.48	24.5	12	25.4	9
10	13.5	7	8.16	8.07	10	8.87	25.5	12 S	26.4	10
11	12.8	7	7.74	17.2	13	19.3	21.5	12	22.3	11
12	12.1	7 S	7.32	19.8	14	24.0	22.2	12	23.1	12
13	22.1	14	26.7	12.5	14	15.1	20.7	11	19.7	13
14	16.2	13	16.2	10.3	13	11.6	23.3	12	24.2	14
15	13.2	13	14.8	8.25	12 S	8.58	26.0	11	25.8	15
16	11.8	13	13.4	8.84	12	9.27	26.6	12	29.7	16
17	37.3	82 S	188	18.5	11	17.8	26.7	8 S	18.5	17
18	23.4	23 S	46.5	25.7	8 S	11.1	21.7	8	11.2	18
19	16.8	17	24.8	15.5	8	8.70	19.4	8	10.1	19
20	14.9	15	19.3	13.0	8	8.82	17.8	8	7.89	20
21	13.7	14	16.8	28.5	12	29.9	22.8	8	11.7	21
22	14.4	12 S	14.9	31.4	30 S	81.4	23.4	8	12.1	22
23	13.8	11	13.1	19.0	17	27.9	20.1	7 S	13.2	23
24	36.7	17	55.8	15.6	17	24.4	17.9	7	10.8	24
25	23.0	13	25.8	20.2	16	27.9	16.8	7	10.0	25
26	16.7	12	17.3	18.5	16	27.0	16.3	8 S	8.45	26
27	13.5	12	14.0	16.3	16	22.5	35.2	13 S	39.5	27
28	12.2	11	11.6	15.0	15	19.4	21.8	8	15.1	28
29	11.2	11	10.8	14.0	15	18.1	19.2	8	13.3	29
30	10.5	11 S	9.88	13.3	15	17.2	17.8	8	13.2	30
31	9.87	11	9.38	12.4	14 S	15.0				31
TOTAL	512.07		578.33	442.45		523.01	810.2		844.84	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	15.9	9	12.4	8.82	2	1.48	55.8	11	53.0	1
2	14.9	8	10.3	8.63	2	1.48	35.8	9	18.5	2
3	15.4	8	10.8	18.4	9	14.3	26.0	9	11.2	3
4	17.9	8	12.4	12.3	5	5.31	22.5	4	7.78	4
5	26.4	8 S	18.2	10.5	4	3.83	21.4	5	9.24	5
6	20.8	8	14.4	12.1	5	5.33	20.0	5	8.84	6
7	20.1	7	12.2	14.0	9	10.8	23.2	5	10.0	7
8	17.2	8	8.82	11.5	8	7.85	28.5	5	12.7	8
9	15.8	8	8.19	10.1	7 S	8.11	23.8	5	10.3	9
10	14.7	8	8.35	9.88	4	3.35	21.5	5 S	9.29	10
11	13.9	5	8.00	9.85	3	2.58	20.7	5	8.94	11
12	14.1	4	4.67	14.8	2 S	2.82	20.3	5	8.77	12
13	13.9	4	4.80	26.2	7	15.8	23.3	5	10.0	13
14	12.9	3	3.34	45.0	11	42.8	42.2	5	18.7	14
15	13.1	4 S	4.18	75.5	9 S	58.7	26.4	5	12.3	15
16	11.3	3	2.83	35.7	6	16.5	28.3	5	11.6	16
17	10.9	3	2.83	28.7	6	13.8	25.1	5	12.0	17
18	10.5	3	2.72	22.8	6	11.8	23.5	5 S	12.2	18
19	9.88	3	2.68	20.7	8	10.7	21.7	6	11.2	19
20	9.49	3	2.46	19.4	8	10.1	19.8	8	10.3	20
21	9.52	3	2.47	18.5	8	9.84	18.5 B	5	7.99	21
22	9.36	3 S	2.43	17.5	8	7.86	17.7 B	5 S	7.85	22
23	9.23	3	2.38	16.4	8	8.80	18.8 B	5	7.25	23
24	9.04	3	2.34	15.6	8	8.09	15.8 B	4	5.59	24
25	8.77	3	2.27	15.0	5	8.46	16.1 B	4	6.25	25
26	8.43	3	2.18	14.3	5	8.18	30.8 B	4	7.12	26
27	7.83	3	2.03	13.7	5	5.82	19.0 B	3	4.82	27
28	7.85	2	1.37	13.8	5 S	5.87	18.4 B	3	4.77	28
29	11.0	2 S	1.90	13.7	5	5.48	17.8 B	3	4.61	29
30	10.2	2	1.78	21.8	8	11.4	17.2 B	4	5.84	30
31	8.78	2	1.82				18.8 B	3	4.35	31
TOTAL	388.16		173.32	670.89		321.84	726.5		329.83	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 12	14:00	0.0	20.7	V	14	10RB																DH48
JAN 12	14:11	0.0	20.7	V	10	10RB												100				DH48
JAN 17	11:25	0.0	12.0	W	7	10RB																DH48
JAN 24	11:05	0.0	8.86	W	9	10RB																DH48
FEB 08	11:08	0.0	87.5		24	10RB												108				DH48
FEB 11	16:05	0.0	28.1	W	11	8.0																DH48
FEB 20	13:18	0.0	28.8		12	8.0												108				DH48
MAR 05	14:18	0.0	14.5		8	8.0																DH48
MAR 18	14:18	0.0	8.10	W	9	8.0																DH48
MAR 20	15:00	0.0	17.2	W	3	8.0												112				DH48
MAR 26	14:42	0.0	25.0		13	8.0																DH48
APR 02	14:05	4.5	15.1		12	8.0																DH48
APR 10	14:08	1.5	34.8		5	25.0												98				DH48
APR 17	10:00	2.0	31.2		11	25.0																D49
APR 18	17:30	1.0	67.0		15	25.0																D49
APR 24	08:26	2.0	29.8		9	25.0																D49
APR 30	13:08	6.3	59.5		12	25.0												105				D49
MAY 03	18:40	3.5	78.4		13	25.0																D49
MAY 04	15:45	5.0	72.8		8	25.0																D49
MAY 07	09:00	3.0	73.5		12	25.0												101				D49
MAY 10	09:14	3.8	78.1		12	25.0																D49
MAY 14	12:51	7.8	70.3		8	25.0																D49
MAY 16	13:03	5.0	182		25	8.0												97				D48
MAY 17	09:05	4.5	94.0		15	25.0																DH48
MAY 19	08:28	5.5	77.2		12	25.0																D49
MAY 22	08:28	5.4	71.2		17	25.0																D49
MAY 28	13:05	11.4	30.6		15	25.0																D49
MAY 31	08:28	7.4	27.6		13	25.0																D49
JUN 03	07:08	8.8	79.1		7	25.0																D49
JUN 04	09:06	4.8	81.7		4	8.0																D49
JUN 05	10:11	8.0	88.8		17	8.0												92				DH48
JUN 05	10:30	5.0	88.8		13	25.0																DH48
JUN 11	08:18	8.3	36.8		17	25.0																D49
JUN 18	07:25	7.8	31.8		12	25.0																D49
JUN 25	13:03	14.8	18.5		19	25.0																D49
JUL 02	13:28	14.3	12.2		24	25.0																D49
JUL 07	08:42	12.8	22.1		7	25.0												108				D49
JUL 12	15:15	21.0	11.9		7	25.0																D49
JUL 17	13:03	14.2	95.2		83	25.0																D49
JUL 18	08:44	14.8	23.5		23	25.0																D49
JUL 22	16:00	18.0	16.3		12	25.0																D49
JUL 30	13:22	18.8	10.7		11	25.0																D49
AUG 02	12:54	18.0	13.8		11	25.0												110				D49
AUG 07	09:12	18.0	7.38		15	25.0																D49
AUG 15	08:18	18.0	8.10		12	25.0																D49
AUG 18	08:12	17.2	26.5		5	25.0																D49
AUG 22	14:02	17.6	24.3		24	25.0												113				D49
AUG 31	09:11	17.3	12.3		22	25.0																D49
SEP 03	09:18	13.4	59.8		11	25.0																D49
SEP 10	12:46	14.5	25.0		12	25.0																D49
SEP 17	08:36	9.0	27.0		7	25.0																D49
SEP 23	15:11	11.4	18.4		20	25.0																D49
SEP 26	11:43	12.0	15.7		13	8.0												112				D48
SEP 27	07:50	9.4	38.6		10	25.0																DH48
OCT 05	10:12	7.2	30.1		8	25.0																D48
OCT 15	10:08	7.5	12.0		3	25.0																D49
OCT 22	13:45	8.0	9.31		3	8.0												114				D48
OCT 28	14:40	8.0	12.5		2	25.0																DH48
NOV 09	10:45	0.0	9.88		12	8.0																D49
NOV 12	13:26	6.5	15.5		1	25.0																DH48
NOV 15	08:45	4.3	81.0		6	25.0																D49
NOV 28	14:22	4.5	12.8		5	25.0																D49
DEC 10	14:45	1.0	20.8		5	25.0												100				D49
DEC 18	10:05	0.0	24.3		8	8.0																D49
DEC 23	12:50	0.0	17.7	W	4	8.0																DH48
																						DH48

NOTE : SINGLE VERTICAL LOCATED AT 25.0 METRES

DISCHARGE SYMBOL(S): V - DAILY MEAN; MANUAL GAUGE W - DAILY MEAN; ICE CONDITIONS

HARRYS RIVER BELOW HIGHWAY BRIDGE - STATION NO. 02YJ001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1979	FEB-DEC #	M-S	12	APR 25	1	JUL 10 *	57.4	NOV 11	1 030	---	---	---
1980	JAN-DEC	M-C	18	OCT 13	1	FEB 25	341	NOV 08	3 630	10.5	10.5	---
1981	JAN-DEC	M-C	27	JUL 28	1	JAN 02	270	DEC 04	4 900	13.4	12.0	12.1
1982	JAN-DEC	M-C	26	NOV 05	1	MAY 19	531	APR 30 *	7 530	21.4	15.1	21.6
1983	JAN-DEC	M-C	29	SEP 23	1	JAN 10	382	JAN 13	9 450	25.8	17.8	19.9
1984	JAN-DEC	M-C	83	JUL 17 *	1	NOV 12	236	MAY 16	9 670 *	26.4	19.5	16.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

NEWFOUNDLAND

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 48 06 33 N LONG 58 47 04 W
DRAINAGE AREA: 72.0 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 947.75 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.47	11	2.35	0.214 B	7	0.13	0.700 B	9 S	0.54	1
2	3.87 A	11	3.68	0.200 B	7 S	0.12	0.610 B	9	0.47	2
3	2.00 E	11	1.90	0.189 B	12	0.20	0.540 B	8	0.37	3
4	1.33 A	11 S	1.26	0.180 B	13	0.20	0.485 B	8	0.34	4
5	1.24	10	1.07	21.1	46	82.0	0.435 B	7	0.26	5
6	2.39	12	2.48	24.8	23	49.5	0.390 B	18	0.54	6
7	11.7	24	24.3	8.71	5 S	4.19	0.355 B	18 S	0.55	7
8	6.61	16	9.00	4.08	5	1.77	0.325 B	16	0.45	8
9	3.51	9	2.73	2.41	5	1.04	0.297 B	15	0.38	9
10	2.31	5 S	1.00	1.46 B	5	0.63	0.275 B	14	0.33	10
11	1.75 B	4	0.60	0.870 B	6	0.50	0.252 B	14	0.30	11
12	1.48 B	4 S	0.51	0.780 B	7	0.45	0.235 B	13	0.26	12
13	1.24 B	4	0.43	0.670 B	8 S	0.38	0.218 B	13	0.24	13
14	1.07 B	4	0.37	0.600 B	8	0.28	0.205 B	13 S	0.23	14
15	0.930 B	5	0.40	1.00 B	9 S	0.78	0.500 B	12	0.52	15
16	0.830 B	4	0.28	5.87	21	12.1	1.80	9	1.24	16
17	0.730 B	4	0.25	4.02	17	5.90	4.38	14	5.27	17
18	0.680 B	4 S	0.23	2.18	13	2.46	7.01	11	6.66	18
19	0.590 B	4	0.20	1.58	10	1.37	4.52	5 S	1.95	19
20	0.540 B	3	0.14	1.27	9	0.99	2.77	7	1.66	20
21	0.490 B	3	0.13	1.09	9	0.85	2.20	14 S	2.66	21
22	0.445 B	3	0.12	0.970	8 S	0.75	4.28	15	5.52	22
23	0.405 B	3	0.10	0.821	9	0.72	5.46	12	6.72	23
24	0.375 B	4	0.13	0.883	8	0.67	5.37	10	5.50	24
25	0.345 B	8 S	0.27	1.14	9	0.88	3.48	9	2.59	25
26	0.320 B	12	0.33	1.40	8	0.97	2.02	9	1.57	26
27	0.298 B	8	0.21	1.18	9	0.92	1.05 B	14	1.27	27
28	0.278 B	7	0.17	0.886	9	0.75	0.830 B	14	1.00	28
29	0.258 B	7	0.16	0.820 B	9	0.64	0.680 B	12	0.71	29
30	0.242 B	7	0.15				0.580 B	12 S	0.60	30
31	0.227 B	7	0.14				0.500 B	10	0.43	31
TOTAL	80.833		85.10	83.213		172.18	84.512		91.25	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.430 B	8	0.30	11.6	7 S	7.02	2.70	12	2.80	1
2	0.375 B	7	0.23	12.0	13	13.5	4.80	17	7.20	2
3	0.338 B	6	0.18	6.82	5 S	2.86	6.58	24	14.3	3
4	0.300 B	8	0.16	4.98	3	1.28	11.8	28	28.5	4
5	0.270 B	5 S	0.12	4.85	5	2.10	9.89	11	9.21	5
6	0.245 B	8	0.13	8.45	5	2.78	9.80	5 S	4.26	6
7	12.8	41 S	45.3	4.31	2	0.74	6.29	3	2.15	7
8	14.0	28	31.4	3.01	2	0.52	4.81	3	1.26	8
9	8.64	17	9.75	3.55	2	0.61	5.56	2	0.86	9
10	3.43	13	3.85	5.04	2 S	0.87	5.53	2	0.98	10
11	3.24	11 S	3.08	5.80	3	1.45	3.80	1	0.30	11
12	3.83	10	3.31	5.80	4	2.00	2.44	1	0.21	12
13	3.48	9	2.71	5.82	4	2.05	1.92	1	0.17	13
14	3.82	8	2.80	5.89	5	2.54	1.58	1 S	0.13	14
15	3.83	7	2.20	14.4	19	23.8	2.87	3	0.87	15
16	3.80	7	2.30	12.5	11 S	11.9	4.58	8	2.36	16
17	5.11	7	3.08	8.54	5	2.83	2.56	4	0.88	17
18	7.88	7	4.84	4.94	7	2.88	1.72	3	0.48	18
19	6.42	7 S	3.88	8.58	12	8.80	1.44	2	0.25	19
20	4.85	6	2.57	8.02	9	3.80	1.79	2 S	0.31	20
21	4.85	5	2.10	3.88	8	3.02	1.57	3	0.41	21
22	4.11	4	1.42	3.82	11	3.73	1.17	3	0.30	22
23	2.82	3	0.88	3.12	10	2.70	1.10	3	0.28	23
24	2.08	2	0.35	2.89	9 S	2.01	1.08	3	0.27	24
25	2.33	1 S	0.20	2.85	8	1.76	0.928	3	0.24	25
26	2.18	1	0.18	2.19	8	1.51	0.830	3	0.22	26
27	2.85	2	0.51	1.84	8	1.36	0.881	6 S	0.48	27
28	5.44	3 S	1.41	1.83	8	1.13	0.881	5	0.37	28
29	7.20	3	1.87	1.37	8	0.95	0.821	5	0.35	29
30	10.3	3	2.87	1.42	7 S	0.88	0.838	5	0.38	30
31				1.92	9	1.49				31
TOTAL	128.856		133.11	182.12		112.86	104.207		80.83	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 02ZA002

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.794	4	0.27	0.447	9 S	0.35	1.54	14	1.9	1
2	0.777	4	0.27	0.887	9	0.69	5.04	25	10.9	2
3	0.773	4	0.27	0.787	9	0.61	4.07	15	5.83	3
4	0.897	3	0.18	0.612	9	0.48	2.21	8	1.53	4
5	0.565	4 S	0.20	0.502	8	0.35	1.34	4 S	0.46	5
6	0.655	4	0.23	0.434	8	0.30	0.958	3	0.25	6
7	0.716	4	0.25	0.400	8	0.28	0.830	3	0.22	7
8	0.633	3	0.16	0.429	8 S	0.30	0.722	3	0.19	8
9	0.588	3	0.15	0.411	8	0.28	0.658	2	0.11	9
10	0.620	4	0.21	0.371	7	0.22	0.858	2	0.11	10
11	0.656	5 S	0.30	0.452	8	0.31	0.610	2	0.11	11
12	0.842	5	0.28	0.567	9	0.44	3.49	14	4.22	12
13	1.59	17	2.34	0.691	8	0.48	2.56	5 S	1.11	13
14	1.08	15	1.40	0.592	7	0.36	1.68	2	0.29	14
15	0.798	14	0.97	0.492	6 S	0.26	1.63	2	0.26	15
16	0.633	13	0.71	0.428	5	0.18	3.87	8	2.67	16
17	0.574	12	0.60	1.89	13	2.12	4.08	8	2.82	17
18	0.537	12 S	0.55	3.83	23	7.21	2.25	5	0.97	18
19	0.500	12	0.52	1.82	10	1.57	1.36	4 S	0.47	19
20	0.477	11	0.45	1.04	6	0.54	0.851	3	0.25	20
21	0.441	10	0.38	3.13	13	2.52	0.922	3	0.24	21
22	0.453	10	0.39	4.22	7	2.55	1.39	5	0.72	22
23	0.521	10	0.45	2.36	3 S	0.81	1.37	5	0.95	23
24	1.84	19	3.02	1.46	3	0.38	1.01	6 S	0.52	24
25	1.75	10 S	1.51	6.58	25	14.2	0.832	5	0.36	25
26	1.13	8	0.78	3.55	15	4.60	0.769	6 S	0.40	26
27	0.866	8	0.60	1.62	11	1.73	1.46	8	1.15	27
28	0.673	9	0.52	1.14	10	0.98	1.10	7	0.67	28
29	0.579	8	0.40	0.830	10	0.72	1.00	8	0.52	29
30	0.519	8	0.36	0.687	10 S	0.59	0.845	6	0.44	30
31	0.449	8	0.31	0.599	10	0.52				31
TOTAL	23.566		19.04	43.258		47.73	51.223		40.42	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.723	8	0.37	0.867	7 S	0.40	10.8	27	25.2	1
2	0.658	5	0.28	0.679	6	0.35	5.26	17	7.73	2
3	0.761	6	0.39	1.18	11	1.12	3.06	12	3.19	3
4	0.898	10 S	0.78	0.906	10	0.76	2.04	9	1.59	4
5	1.93	13	2.17	0.801	10	0.69	1.97	6	1.02	5
6	2.14	11	2.03	0.849	10	0.73	1.65	5 S	0.71	6
7	3.00	11	2.85	1.18	11 S	1.10	8.01	20	10.4	7
8	2.12	7	1.28	1.00	8	0.89	6.55	23	13.0	8
9	3.80	10	3.28	0.770	7	0.47	3.56	10	3.08	9
10	2.73	8	1.42	0.702	6	0.38	2.22	7	1.34	10
11	1.74	3 S	0.45	0.864	6	0.34	2.00	8	1.38	11
12	1.29	3	0.33	0.778	5	0.34	2.42	12 S	2.51	12
13	1.05	3	0.27	0.898	6	0.52	4.63	18	7.51	13
14	0.918	2	0.18	3.95	26	8.87	7.54	24	15.6	14
15	0.839	2	0.14	9.26	11 S	8.82	3.98	17	5.86	15
16	0.787	2	0.13	4.85	4	1.81	2.38	14	2.88	16
17	0.682	2	0.12	3.16	4	1.08	2.24	13	2.52	17
18	0.633	2	0.11	2.23	4	0.77	2.35	14	2.84	18
19	0.614	2 S	0.11	1.58	4	0.55	2.02	13	2.27	19
20	0.595	2	0.10	1.33	4	0.46	1.76	12 S	1.62	20
21	0.601	2	0.10	1.48	4	0.51	1.79	12	1.86	21
22	0.621	3	0.16	1.38	4 S	0.47	1.86	12	2.05	22
23	0.624	2	0.11	1.11	3	0.29	1.81	11	1.82	23
24	0.622	2	0.11	1.11	3	0.29	2.10	11	2.00	24
25	0.597	2 S	0.10	1.09	3	0.28	4.72	16	6.64	25
26	0.587	3	0.15	1.02	3	0.26	6.78	27	15.8	26
27	0.550	3	0.14	0.963	3	0.25	3.89	19	6.05	27
28	0.572	3	0.15	0.850	3 S	0.25	2.72	17 S	4.00	28
29	0.989	10	0.86	1.05	3	0.28	2.30 B	16	3.16	29
30	0.679	10	0.76	8.46	27	22.1	1.95 B	15	2.53	30
31	0.752	8	0.52				1.81 B	14	2.19	31
TOTAL	35.302		19.83	56.867		55.04	108.44		160.48	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 022A002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.50^	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 04	12:00	1.0	1.41		11	13.0												137				DH48
JAN 10	15:00	0.0	2.34		4	7.0																DH48
JAN 12	11:20	0.0	1.48	W	4	7.0																DH48
JAN 18	15:15	0.0	0.680	W	14	7.0																DH48
JAN 25	12:00	0.0	0.345	W	7	7.0												120				DH48
FEB 02	09:05	0.0	0.200	W	7	7.0																DH48
FEB 07	08:40	1.0	10.5		5	7.0																DH48
FEB 13	14:30	0.0	0.570	W	8	7.0																DH48
FEB 15	10:40	0.0	1.00	W	9	7.0																DH48
FEB 22	09:00	0.5	0.803		18	13.0																DH48
MAR 01	08:30	0.0	0.700	W	10	7.0																DH48
MAR 07	14:25	0.0	0.355	W	16	7.0																DH48
MAR 14	14:45	0.0	0.205	W	13	7.0																DH48
MAR 19	12:23	0.0	4.38		5	7.0																DH48
MAR 21	07:50	0.0	3.50		13	7.0																DH48
MAR 30	08:50	0.0	0.580	W	13	7.0																DH48
APR 05	14:00	0.0	0.270	W	5	7.0																DH48
APR 07	13:55	2.0	14.4		45	7.0																DH48
APR 07	10:15	0.0	12.8		51	7.0																DH48
APR 11	14:08	5.0	2.88		11	7.0																DH48
APR 19	10:50	5.0	8.14		7	7.0												78				DH48
APR 25	09:45	5.0	2.28		1	7.0																DH48
APR 28	14:55	9.5	2.20		3	7.0																DH48
MAY 01	15:15	5.0	8.53		5	7.0																DH48
MAY 03	11:55	5.5	5.40		5	7.0																DH48
MAY 10	08:15	5.0	2.57		2	7.0																DH48
MAY 18	10:50	8.5	15.3		8	7.0												52				DH48
MAY 24	15:20	15.0	2.35		9	7.0																DH48
MAY 30	18:20	8.0	1.45		7	7.0																DH48
JUN 05	16:50	10.0	9.22		4	7.0																DH48
JUN 14	10:30	12.0	1.56		1	7.0												73				DH48
JUN 20	10:20	14.0	1.77		3	7.0																DH48
JUN 27	20:40	17.0	0.888		11	13.0																DH48
JUL 05	13:00	20.0	0.847		11	13.0																DH48
JUL 05	14:35	20.0	0.837		10	13.0																DH48
JUL 11	14:45	22.0	0.730		8	13.0																DH48
JUL 18	18:45	23.0	0.527		12	13.0												120				DH48
JUL 28	09:05	15.0	1.82		10	7.0																DH48
AUG 01	18:05	20.0	0.458		14	13.0																DH48
AUG 08	17:40	18.0	0.455		38	13.0																DH48
AUG 15	18:50	22.5	0.490		17	13.0												138				DH48
AUG 23	18:45	19.5	2.10		3	7.0																DH48
AUG 30	17:32	22.0	0.881		10	13.0																DH48
SEP 06	16:15	14.0	1.30		3	13.0																DH48
SEP 13	17:55	14.0	2.38		3	7.0																DH48
SEP 19	15:30	14.0	1.38		3	13.0																DH48
SEP 24	16:00	14.0	0.973		8	13.0												104				DH48
SEP 28	12:02	12.5	0.717		8	13.0																DH48
OCT 04	13:20	9.5	0.752		19	13.0																DH48
OCT 11	15:10	8.0	1.58		4	7.0																DH48
OCT 19	14:35	7.5	0.585		14	13.0												88				DH48
OCT 25	14:25	6.5	0.847		13	13.0																DH48
NOV 01	15:10	5.0	0.901		11	13.0																DH48
NOV 07	12:50	5.0	1.20		12	13.0																DH48
NOV 07	14:50	5.0	1.19		5	13.0																DH48
NOV 15	10:05	5.0	11.3		6	7.0																DH48
NOV 22	10:50	0.0	1.28		11	13.0												87				DH48
NOV 28	14:15	2.0	0.803		7	13.0																DH48
DEC 06	08:10	0.0	1.87		4	7.0																DH48
DEC 12	10:20	0.0	4.46		13	7.0																DH48
DEC 20	15:00	0.0	5.87		13	7.0																DH48
DEC 28	10:30	0.0	4.17		15	7.0																DH48

NOTE : SINGLE VERTICAL LOCATED AT 13.0 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY - STATION NO. 022A002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1981	AUG-DEC #	M-MS	41	DEC 15	2	AUG 30	---		---	---	---	---
1982	JAN-DEC	M-C	40	APR 30	1	FEB 11 *	210	APR 30	1 130	3.08	3.09	---
1983	JAN-DEC	M-C	58	JAN 13 *	1	MAY 18	245	JAN 13 *	1 810 *	5.25	4.17	25.9
1984	JAN-DEC	M-C	51	APR 07	1	APR 25	82.0	FEB 05	847	2.59	3.84	22.4

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

NORTHEAST BROOK NEAR ROBBICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 50 55 44 N LONG 56 06 44 W
DRAINAGE AREA: 200 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 1 518.78 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.08 B	2	0.36	0.555 B	5	0.24	0.795 B	8	0.55	1
2	1.94 B	3	0.50	0.543 B	11	0.52	0.765 B	7	0.46	2
3	1.82 B	3	0.47	0.530 B	12 S	0.55	0.730 B	7 S	0.44	3
4	1.70 B	4	0.59	0.520 B	11	0.49	0.705 B	7	0.43	4
5	1.61 B	4	0.58	1.00 B	28	2.42	0.675 B	7	0.41	5
6	1.52 B	5 S	0.66	3.00 B	33	8.55	0.655 B	7	0.40	6
7	1.44 B	5	0.62	2.73 B	17	4.01	0.630 B	8	0.44	7
8	1.36 B	5	0.59	2.50 B	10	2.15	0.610 B	8	0.42	8
9	1.29 B	5	0.56	2.35 B	8	1.62	0.585 B	8 S	0.40	9
10	1.23 B	5	0.53	2.20 B	8	1.52	0.835 B	8	0.39	10
11	1.17 B	5	0.51	2.05 B	8 S	1.42	0.545 B	7	0.33	11
12	1.12 B	5	0.48	1.92 B	8	1.33	0.530 B	7	0.32	12
13	1.06 B	5	0.46	1.80 B	7	1.09	0.510 B	7	0.31	13
14	1.02 B	4 S	0.35	1.70 B	8	1.16	0.495 B	8	0.28	14
15	0.975 B	4	0.34	1.64 B	8	1.13	0.480 B	7	0.29	15
16	0.940 B	4	0.32	1.54 B	7	0.93	1.50 B	6 S	0.78	16
17	0.905 B	4	0.31	1.47 B	7	0.89	3.05 B	8	1.58	17
18	0.870 B	5	0.38	1.40 B	6 S	0.73	2.70 B	5	1.17	18
19	0.840 B	7	0.51	1.34 B	6	0.69	2.50 B	5	1.08	19
20	0.810 B	7 S	0.49	1.27 B	6	0.66	2.39 B	4	0.83	20
21	0.780 B	6	0.40	1.21 B	5	0.52	2.20 B	4	0.76	21
22	0.760 B	6	0.39	1.14 B	5	0.49	3.00 B	4 S	1.04	22
23	0.730 B	5	0.32	1.09 B	5	0.47	4.00 B	5	1.73	23
24	0.710 B	5	0.31	1.04 B	5	0.45	4.40 B	8	3.04	24
25	0.690 B	5	0.30	1.00 B	8 S	0.69	4.10 B	12	4.25	25
26	0.885 B	5	0.29	0.950 B	9	0.74	4.50 B	15	6.22	26
27	0.840 B	4 S	0.22	0.910 B	9	0.71	5.30 B	20	9.16	27
28	0.820 B	9	0.48	0.870 B	8	0.60	5.60 B	18	8.71	28
29	0.805 B	12	0.83	0.830 B	8	0.57	5.50 B	11	5.23	29
30	0.590 B	8	0.48				5.20 B	8 S	3.59	30
31	0.575 B	6	0.30				4.95 B	6	2.57	31
TOTAL	33.085		13.89	41.095		37.37	70.185		57.59	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	4.60 B	8	1.98	8.50 B	8	3.37	12.8	9	9.95	1
2	4.35 B	5	1.88	8.00 B	5	3.46	14.0	9 S	10.8	2
3	4.10 B	4	1.42	9.37 A	5 S	4.05	19.1	24	39.6	3
4	3.90 B	4	1.35	18.2	4	5.80	25.5	24	52.9	4
5	3.70 B	4	1.28	19.6	5 S	8.47	29.1	11	27.7	5
6	3.60 B	10 S	3.11	22.2	17	32.6	29.2	7 S	17.7	6
7	3.80 B	18	5.91	22.4	14	27.1	28.9	6	13.9	7
8	4.10 B	18	6.38	21.5	9 S	16.7	23.6	5	10.2	8
9	4.40 B	13	4.94	21.3	7	12.9	20.8	8 S	14.4	9
10	4.30 B	9	3.34	21.4	6	11.1	19.5	9	15.2	10
11	4.10 B	8	2.83	23.3	7	14.1	17.5	9	13.6	11
12	3.95 B	8	2.73	26.4	10 S	22.6	16.1	9	12.5	12
13	3.80 B	8	2.63	29.6	17	43.5	14.5	9	11.3	13
14	3.85 B	8 S	2.52	33.2	22	63.1	12.9	9	10.0	14
15	3.85 B	9	2.76	38.0	10 S	32.6	11.6	9	9.02	15
16	3.40 B	9	2.64	43.9	19 S	72.1	10.1	9 S	7.85	16
17	3.30 B	10	2.85	45.5	8	31.4	8.83	9	6.87	17
18	3.15 B	11 S	2.99	42.6	6	22.1	8.09	9	6.29	18
19	3.10 B	11	2.95	35.8	8 S	24.7	7.81	9	5.92	19
20	2.94 B	11	2.79	30.4	19	49.9	7.08	9	5.51	20
21	2.85 B	11	2.71	28.9	11	27.5	6.46	9	5.04	21
22	2.76 B	10	2.40	27.3	9	21.2	5.95	9 S	4.63	22
23	2.64 B	10	2.45	24.1	9 S	18.7	5.42	9	4.21	23
24	3.00 B	9	2.33	21.1	9	18.4	4.94	8	3.41	24
25	3.20 B	8	2.21	20.4	15	28.4	4.42	7	2.87	25
26	3.50 B	8	2.42	20.2	13 S	22.7	4.10	7	2.48	26
27	3.85 B	7	2.33	18.9	12	18.8	3.75	6 S	1.95	27
28	4.50 B	6 S	2.33	17.7	11	16.8	3.55	4 S	1.23	28
29	5.00 B	6	2.88	16.6	10	14.0	3.34	4	1.15	29
30	5.80 B	6	2.85	15.0	10	13.0	3.29	6	1.71	30
31				13.6	9	10.7				31
TOTAL	112.81		83.81	740.77		708.85	380.17		328.78	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	3.48	8	2.41	0.971	8	0.67	1.81	6	0.99	1
2	3.60	8	2.49	0.918	10	0.78	1.81	6	0.94	2
3	3.54	8	2.45	0.882	10	0.74	1.67	6	0.87	3
4	3.60	8	2.49	0.832	10 S	0.72	1.53	6	0.79	4
5	3.50	8	2.42	0.730	10	0.63	1.38	6	0.72	5
6	3.41	8	2.36	0.736	8	0.57	1.36	7 S	0.82	6
7	3.32	8 S	2.29	0.675	8	0.53	1.37	7	0.83	7
8	3.11	8	2.15	0.945	10	0.82	1.27	7	0.77	8
9	3.13	8	2.16	1.10	6	0.57	1.18	6	0.80	9
10	2.98	8	2.06	0.950	6	0.50	1.09	5	0.47	10
11	2.89	8	2.00	1.07	6 S	0.55	0.998	5	0.43	11
12	3.00	18	4.67	1.16	6	0.60	0.996	5	0.43	12
13	2.91	14 S	3.52	1.16	6	0.61	0.939	5 S	0.41	13
14	2.78	8	1.91	1.14	6	0.59	0.849	4	0.29	14
15	2.62	7	1.58	1.08	6	0.56	0.774	4	0.27	15
16	2.45	7	1.48	0.888	6	0.52	0.885	6	0.44	16
17	2.34	7	1.42	1.03	6	0.53	0.898	6	0.46	17
18	2.51	7	1.52	1.86	10 S	1.37	0.843	6	0.44	18
19	2.35	7	1.42	1.63	6	0.84	0.828	6	0.43	19
20	2.11	7 S	1.26	1.57	6	0.81	0.820	6	0.43	20
21	1.98	7	1.20	1.53	6	0.79	0.871	6	0.45	21
22	1.85	8	1.26	1.76	6	0.91	0.899	7 S	0.54	22
23	1.75	8	1.21	1.80	7	1.15	0.886	7	0.52	23
24	1.70	7	1.03	2.08	8	1.42	0.843	8	0.65	24
25	1.61	5	1.11	2.18	8 S	1.49	1.00	6	0.69	25
26	1.48	6	1.02	2.21	9	1.72	1.01	9	0.79	26
27	1.34	6	0.93	2.15	10	1.88	0.884	8	0.77	27
28	1.32	6 S	0.91	2.12	9 S	1.65	0.818	12 S	0.85	28
29	1.18	6	0.82	2.15	6 S	1.11	0.844	13	0.95	29
30	1.15	6	0.80	2.08	5	1.08	0.822	13	0.32	30
31	1.09	6	0.78	1.99	6	1.03				31
TOTAL	78.07		55.14	43.282		27.73	32.513		19.05	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.778	13	0.87	0.713	13	0.80	3.09	7 S	1.87	1
2	0.764	13	0.86	0.686	12	0.71	3.30	13	3.71	2
3	0.777	13	0.87	0.803	12 S	0.83	3.36	13	3.77	3
4	0.818	13	0.92	0.740 B	11	0.70	3.40 B	11	3.23	4
5	0.771	12 S	0.80	0.672	11	0.64	3.40	11	3.23	5
6	0.763	14	0.92	0.674	12	0.70	3.50 B	11	3.33	6
7	0.743	14	0.90	0.685	18 S	1.07	3.47	11	3.30	7
8	0.730	14	0.88	0.825	11	0.59	3.30 B	11 S	3.14	8
9	0.748	14	0.91	0.555 B	11 S	0.53	3.16 B	10	2.73	9
10	0.789	14	0.93	0.500 B	11	0.48	3.03 B	9	2.36	10
11	0.728	14	0.88	0.528	11	0.50	2.92 B	8	2.02	11
12	0.787	15 S	0.98	0.604	11	0.57	2.80 B	7	1.69	12
13	0.742	15	0.96	0.851	11	0.82	2.68 B	6	1.39	13
14	0.730	15	0.95	0.844	12	0.86	2.80 B	5	1.12	14
15	0.704	15	0.91	1.72	19	2.82	3.00 B	6 S	1.55	15
16	0.688	15	0.89	2.15	21 S	3.92	8.00 B	20	10.4	16
17	0.676	15	0.88	2.50 B	16	3.45	5.85 B	8	3.91	17
18	0.658	15	0.85	2.85	19	4.88	5.20 B	8	3.59	18
19	0.826	23 S	1.24	3.07	23	6.10	4.80 B	8	3.39	19
20	0.835	18	1.04	3.15 B	21	5.72	4.80 B	8	3.18	20
21	0.822	17	0.91	3.27	18	5.37	4.35 B	8 S	3.01	21
22	0.808	17	0.89	3.12	16	4.85	4.10 B	8	2.83	22
23	0.882	17	0.97	3.35 B	17 S	4.92	3.84 B	7	2.38	23
24	0.854	17	0.96	3.51	16	4.85	3.73 B	8	1.93	24
25	0.838	17	0.94	3.42	15	4.43	3.58 B	6	1.84	25
26	0.853	16	0.90	3.14	14	3.80	3.38 B	5	1.46	26
27	0.812	16 S	0.85	3.05	12	3.18	3.23 B	4	1.12	27
28	0.804	16	0.83	2.93	11	2.78	3.10 B	3 S	0.80	28
29	0.878	15	0.88	2.78	10	2.38	2.96 B	3	0.77	29
30	0.716	14	0.87	2.77	9	2.15	2.83 B	3	0.73	30
31	0.745	14	0.90				2.70 B	3	0.70	31
TOTAL	21.817		28.38	55.851		74.81	111.24		80.49	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JAN 06	14:38	0.1	1.52	W	5	5.0												93				DH48
JAN 14	12:30	0.1	1.02	W	4	5.0																DH48
JAN 20	15:07	0.1	0.810	W	8	5.0																DH48
JAN 27	14:46	1.5	0.640	W	4	5.0																DH48
FEB 03	14:45	1.5	0.530	W	12	5.0																DH48
FEB 11	13:16	1.5	2.05	W	52	5.0												110				DH48
FEB 18	09:42	2.0	1.40	W	6	5.0																DH48
FEB 25	13:10	2.0	1.00	W	8	5.0																DH48
MAR 03	13:00	2.0	0.730	W	7	5.0												104				DH48
MAR 09	16:00	1.5	0.585	W	8	5.0																DH48
MAR 16	16:00	1.5	1.50	W	6	5.0																DH48
MAR 22	14:13	1.5	3.00	W	4	5.0																DH48
MAR 30	15:03	2.0	5.20	W	7	5.0																DH48
APR 06	14:38	2.0	3.60	W	11	5.0																DH48
APR 14	08:38	2.0	3.85	W	8	5.0																DH48
APR 18	16:35	1.5	3.15	W	11	5.0												93				DH48
APR 28	12:55	3.0	4.50	W	6	5.0																DH48
MAY 03	16:00	3.0	9.37	V	5	5.0																DH48
MAY 05	12:20	3.0	13.9		4	5.0																DH48
MAY 08	18:50	3.0	19.3		8	5.0																DH48
MAY 12	12:38	4.0	23.9		9	5.0																DH48
MAY 15	16:25	4.0	38.5		5	5.0												93				DH48
MAY 16	18:12	4.0	45.3		11	5.0																DH48
MAY 19	13:09	5.0	35.3		7	5.0																DH48
MAY 23	16:41	5.0	22.9		9	5.0																DH48
MAY 26	13:03	7.0	19.8		12	5.0																DH48
JUN 02	12:09	10.0	13.1		8	5.0																DH48
JUN 06	16:42	7.0	28.6		8	5.0												104				DH48
JUN 09	13:26	7.0	19.7		8	5.0																DH48
JUN 16	11:39	11.0	16.0		9	5.0																DH48
JUN 22	14:36	14.0	5.40		9	5.0																DH48
JUN 27	14:46	13.0	3.70		6	11.0																DH48
JUN 28	09:46	13.0	3.57		4	11.0																DH48
JUL 07	12:18	20.0	3.29		8	11.0																DH48
JUL 13	12:47	21.0	2.78		14	11.0																DH48
JUL 20	20:05	21.5	2.00		7	11.0																DH48
JUL 26	08:56	18.0	1.27		8	11.0												108				DH48
AUG 04	07:28	17.0	0.824		10	11.0																DH48
AUG 11	07:38	18.0	0.810		6	11.0																DH48
AUG 18	11:50	17.0	1.56		9	11.0																DH48
AUG 25	10:43	15.0	2.21		8	11.0																DH48
AUG 28	11:42	16.0	2.14		11	11.0																DH48
AUG 29	16:50	16.0	2.15		6	11.0												105				DH48
SEP 06	17:16	17.0	1.38		9	11.0																DH48
SEP 13	16:55	13.0	0.900		4	11.0																DH48
SEP 22	09:10	10.0	0.910		7	11.0																DH48
SEP 28	17:14	9.0	0.890		13	11.0																DH48
OCT 05	12:28	9.0	0.754		12	11.0																DH48
OCT 12	15:45	7.0	0.770		16	11.0																DH48
OCT 19	13:35	8.0	0.610		25	11.0																DH48
OCT 27	13:37	3.0	0.580		16	11.0												95				DH48
NOV 03	14:30	3.0	0.572		11	11.0																DH48
NOV 07	16:53	4.0	0.690		16	11.0																DH48
NOV 09	14:35	4.0	0.572		11	11.0																DH48
NOV 16	14:47	3.0	2.14		19	11.0																DH48
NOV 23	14:45	3.0	3.35	W	17	11.0																DH48
DEC 01	11:00	4.0	3.13		8	11.0												77				DH48
DEC 08	09:49	3.0	3.30	W	11	11.0																DH48
DEC 15	12:30	3.0	3.00	W	4	11.0																DH48
DEC 21	12:42	2.5	4.35	W	8	5.0																DH48
DEC 28	13:14	2.5	3.10	W	3	11.0																DH48

NOTE : SINGLE VERTICAL LOCATED AT 11.0 METRES

DISCHARGE SYMBOL(S): V - DAILY MEAN; MANUAL GAUGE W - DAILY MEAN; ICE CONDITIONS

NORTHEAST BROOK NEAR RODDICKTON - STATION NO. 02YD002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1981	JUL-DEC	M-S	24	DEC 08	1	AUG 08 *	43.7	DEC 11	918		---	---	---
1982	JAN-DEC	M-C	21	JAN 08	2	MAR 05	48.8	JUN 07	1 520 *		4.16	4.16	---
1983	JAN-DEC	M-C	30	JAN 14	2	MAR 02	32.3	APR 30	1 130		3.11	3.85	14.7
1984	JAN-DEC	M-C	52	FEB 11 *	3	DEC 28	72.1	MAY 16 *	1 520		4.14	3.81	8.2

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NEWFOUNDLAND

NORTHEAST POND RIVER AT NORTHEAST POND - STATION NO. 022H006

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1970	FEB-DEC	M-S	20	AUG 08 *	0	SEP 08 *	7.32	AUG 18 *	28.4 *	---	---	---
1971	JAN-DEC	M-C	8	FEB 10	0	FEB 06	1.16	FEB 01	8.25	0.03	0.03	---
1972	JAN-DEC	M-C	9	MAR 09	0	SEP 01	0.71	MAR 20	11.9	0.04	0.04	17.7
1973	JAN-DEC	M-C	9	AUG 14	0	SEP 18	0.52	JUN 18	11.4	0.03	0.03	13.6
1974	JAN-DEC	M-C	8	JAN 15	1	MAY 27	0.77	AUG 31	11.2	0.03	0.03	9.6
1975	JAN-DEC	M-C	5	JUL 15	1	MAR 25	0.86	MAY 07	8.34	0.03	0.03	7.5
1976	JAN-DEC	M-C	8	JAN 05	1	APR 09	1.24	JAN 08	11.1	0.03	0.03	8.1
1977	JAN-DEC	M-C	7	MAR 14	1	JAN 04	0.78	DEC 27	8.29	0.03	0.03	5.1
1978	JAN-DEC	M-C	4	JAN 20	1	MAR 07	0.48	DEC 19	8.89	0.02	0.03	5.3

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH005

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 47 31 47 N LONG 52 44 34 W
DRAINAGE AREA: 52.7 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 1 078.83 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.81	13	2.15	3.81	18	6.08	2.01	7	1.22	1
2	1.36	11	1.29	1.72	14	2.08	3.30	8	2.28	2
3	2.37	16	3.28	1.11	13 S	1.25	1.55	3	0.40	3
4	1.77	13	1.89	1.98	17	2.81	1.26	3	0.33	4
5	1.54	10	1.33	11.0	34	32.3	1.12	2	0.19	5
6	1.50	5 S	0.69	14.8	23 S	29.4	0.916	4	0.32	6
7	4.04	18 S	6.28	18.6	43 S	69.1	2.06	9	1.60	7
8	12.3	29 S	30.8	10.2	24	21.2	1.67	5	0.72	8
9	9.74	26 S	21.9	3.34	15	4.33	1.14	3 S	0.30	9
10	3.11	5	1.34	1.69	13	1.90	1.25	7 S	0.76	10
11	4.75	15	6.57	1.30 B	12	1.35	1.31	13	1.47	11
12	6.13	14	7.41	1.10 B	9	0.86	0.839	11 S	0.80	12
13	2.08	10	1.60	0.980 B	8	0.68	0.760 B	10 S	0.66	13
14	1.58	7	0.94	0.880 B	9	0.68	0.743	7	0.45	14
15	1.37	6	0.71	0.800 B	7	0.48	0.721	3 S	0.19	15
16	1.15	5	0.50	0.980 B	8	0.68	1.05	5	0.45	16
17	1.07	4	0.37	1.01	8	0.70	3.03	14 S	3.87	17
18	1.06	3	0.27	0.818	7	0.49	2.83	10	2.45	18
19	0.886	3	0.23	0.684	7	0.41	1.96	10 S	1.69	19
20	0.800 B	2	0.14	0.670	7	0.41	1.31	9	1.02	20
21	0.720 B	2	0.12	1.05	9	0.82	1.13	7	0.68	21
22	0.670 B	13	0.75	0.884	10 S	0.75	1.20	6 S	0.62	22
23	0.625 B	8	0.43	0.697	9	0.54	1.48	5	0.64	23
24	0.580 B	5	0.25	0.612	8	0.48	1.59	5 S	0.69	24
25	0.680 B	8	0.47	5.78	23	11.5	1.28	6	0.66	25
26	7.24	26	16.3	4.30	9	3.34	0.931	6 S	0.48	26
27	2.19	13	2.46	2.67	2	0.46	0.521	6 S	0.27	27
28	4.79	15	6.21	1.68	1 S	0.15	0.776	13	0.87	28
29	2.89	9	2.09	1.25	1	0.11	1.05 B	13 S	1.18	29
30	1.52	8	1.05				0.900 B	4 S	0.31	30
31	1.13	9	0.86				0.800 B	5 S	0.35	31
TOTAL	83.431		121.00	96.475		195.44	42.509		37.62	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.720 B	5	0.31	8.47	12 S	8.78	1.03	4	0.36	1
2	0.680 B	7 S	0.41	4.88	3 S	1.27	1.33	7 S	0.80	2
3	0.650 B	12 S	0.67	3.88	2	0.67	1.82	6	0.94	3
4	0.640 B	12	0.66	3.08	1 S	0.27	2.08	10 S	1.78	4
5	0.740 B	11 S	0.70	2.90	4 S	1.00	1.80	6	0.93	5
6	0.900 B	10 S	0.78	3.54	10	3.06	1.38	5	0.58	6
7	4.63	36 S	14.4	3.86	15 S	5.00	1.25	3 S	0.32	7
8	7.80	20 S	13.7	2.71	10 S	2.34	1.09	3 S	0.28	8
9	8.70	16	13.5	2.15	7	1.30	1.73	9 S	1.35	9
10	14.5	32	40.1	2.98	19	4.89	4.20	21 S	7.62	10
11	14.0	13 S	15.7	4.10	19	6.73	1.84	6 S	1.27	11
12	11.5 A	10 S	9.94	2.56	15 S	3.32	1.48	12 S	1.53	12
13	7.46 A	12 S	7.73	1.95	12	2.02	1.26	11	1.20	13
14	24.3 E	49 S	103	1.78	11 S	1.67	1.12	10 S	0.97	14
15	24.5 E	24 S	50.6	1.62	10 S	1.40	1.01	10 S	0.87	15
16	14.0 E	8 S	9.68	1.46	8	1.01	1.04	6 S	0.72	16
17	6.84 A	5 S	2.95	1.67	7 S	1.01	0.909	7	0.55	17
18	9.01	9 S	7.01	3.56	23	7.07	0.771	5 S	0.33	18
19	5.53	6	2.87	6.06	31 S	16.2	0.717	5 S	0.31	19
20	3.63	5	1.52	6.09	6 S	3.16	0.726	6	0.36	20
21	2.95	4	1.02	3.83	10	3.14	2.43	18	3.15	21
22	2.58	3	0.67	18.4	39 S	65.4	7.15	30 S	18.5	22
23	2.21	3	0.57	6.55	9 S	5.09	3.53	18	5.48	23
24	2.12	4	0.73	3.53	8	2.44	2.04	17	3.00	24
25	2.00	2	0.35	2.68	6 S	1.39	1.87	17	2.45	25
26	1.92	3 S	0.90	2.14	6 S	1.11	1.28	16	1.78	26
27	2.72	8	1.88	1.78	6	0.93	1.15	16	1.80	27
28	4.02	14 S	4.86	1.53	5 S	0.86	1.14	15 S	1.48	28
29	9.83	20 S	16.6	1.28	4 S	0.44	0.970	15	1.26	29
30	5.80	13 S	6.28	1.09	4	0.38	0.880	13	0.97	30
31				1.06	5 S	0.46				31
TOTAL	196.480		329.90	113.95		153.81	50.773		82.77	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

NEWFOUNDLAND

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH008

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.818	12	0.85	0.318	2	0.05	0.717	4	0.25	1
2	0.826	11	0.79	0.301	2	0.05	0.676	3	0.17	2
3	0.743	8	0.51	0.289	2	0.05	0.652	3	0.17	3
4	0.676	5	0.35	0.312	2	0.05	0.624	3	0.16	4
5	0.640	4	0.22	0.291	1	0.03	0.568	3	0.14	5
6	0.594	3	0.15	0.303	1	0.03	0.577	3	0.15	6
7	0.578	2	0.10	0.300	1	0.03	3.43	23	6.82	7
8	0.550	2	0.10	0.273	1	0.02	5.03	19	9.80	8
9	0.500	2	0.08	0.347	4	0.12	2.51	7	1.52	9
10	0.491	1	0.04	0.298	2	0.05	1.80	8	0.93	10
11	0.462	1 S	0.04	0.289	2	0.04	1.34	5	0.58	11
12	0.463	1	0.04	0.680	8	0.48	1.21	5	0.52	12
13	0.432	1	0.04	0.856	8 S	0.34	3.11	11	2.96	13
14	0.426	1	0.04	0.512	5	0.22	2.18	3	0.57	14
15	0.418	1	0.04	0.408	4	0.14	1.73	3	0.45	15
16	0.450	1	0.04	0.341	2	0.08	1.88	5	0.88	16
17	0.859	5 S	0.28	0.334	2 S	0.06	1.37	4	0.47	17
18	0.582	7	0.35	1.47	15	2.03	1.15	2 S	0.20	18
19	0.484	5	0.21	3.10	13	3.48	1.30	5	0.56	19
20	0.384	3 S	0.10	4.28	12 S	4.44	5.54	24	13.6	20
21	0.358	3	0.08	2.34	7	1.42	3.44	11	3.27	21
22	0.374	2	0.06	1.69	5	0.88	6.19	13	6.95	22
23	0.360	2	0.06	1.24	5	0.54	2.68	4	0.93	23
24	0.450	4	0.16	0.908	5	0.47	1.85	4	0.64	24
25	0.441	3	0.11	4.55	29	11.4	1.51	4	0.52	25
26	0.387	2	0.07	2.89	10	2.32	1.38	4 S	0.47	26
27	0.358	1 S	0.03	1.53	5	0.78	1.45	3	0.38	27
28	0.315	1	0.03	1.19	5	0.51	1.22	1 S	0.11	28
29	0.478	5	0.21	0.908	5	0.39	0.990	1	0.09	29
30	0.389	4	0.13	0.781	5 S	0.34	0.897	1	0.08	30
31	0.329	3	0.09	0.752	5	0.32				31
TOTAL	15.421		5.42	33.653		31.25	80.790		54.44	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.836	1	0.07	0.818	2	0.11	1.23	2	0.21	1
2	0.758	1	0.07	0.694	2	0.10	1.18	2	0.21	2
3	1.25	4	0.43	0.811	2	0.11	1.12	2	0.19	3
4	1.40	3	0.36	0.836	1	0.05	1.28	3	0.33	4
5	1.03	2 S	0.18	0.824	1	0.05	1.78	8	1.38	5
6	0.841	5	0.41	0.815	1 S	0.04	1.26	6	0.85	6
7	0.778	4	0.27	0.585	1	0.05	7.85	75	50.9	7
8	0.713	3	0.18	0.670	1	0.05	4.41	16	6.10	8
9	0.717	3	0.19	0.593	1	0.05	3.28	9	2.55	9
10	1.27	6	0.65	0.525	1	0.05	2.21	5	0.95	10
11	1.36	4 S	0.45	0.498	1	0.04	1.75	5	0.75	11
12	2.06	8	1.42	0.520	1	0.04	1.58	4	0.58	12
13	1.80	6	0.83	3.35	20	5.79	2.48	8	1.71	13
14	1.24	5	0.54	3.08	5	1.50	2.80	6	1.35	14
15	1.07	4	0.37	2.02	5 S	0.87	1.57	5	0.68	15
16	0.928	4	0.32	1.51	5	0.70	1.12	3	0.29	16
17	0.863	3	0.22	1.46	4	0.50	1.23	1 S	0.11	17
18	0.786	3	0.20	1.28	4	0.44	1.26	2	0.22	18
19	0.817	3	0.21	1.09	2	0.18	1.04	1	0.09	19
20	0.786	3	0.20	1.01	1 S	0.09	1.05	2	0.18	20
21	0.737	2	0.13	0.821	1	0.07	1.20	3	0.31	21
22	0.755	2	0.13	0.811	1	0.07	0.902	2	0.18	22
23	0.704	2	0.12	0.709	1	0.06	2.58	10	2.23	23
24	0.725	2	0.13	1.32	5	0.58	1.85	5	0.81	24
25	0.714	1	0.06	1.15	5	0.50	2.53	4	0.87	25
26	0.854	1	0.08	0.948	4	0.33	1.77	2	0.31	26
27	0.808	1	0.08	0.897	4	0.31	1.48	3	0.38	27
28	0.575	1	0.05	0.932	3	0.24	1.10 B	2	0.19	28
29	0.699	2 S	0.12	0.948	2 S	0.16	0.930	2	0.16	29
30	0.636	2	0.11	1.09	2	0.19	1.26	2	0.22	30
31	0.823	2	0.11				1.10	1	0.10	31
TOTAL	28.611		8.86	31.287		13.54	57.812		75.18	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZH008

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 06	10:20		1.58	5	0.5																PWS
JAN 07	13:30		5.46	43	0.5												178				PWS
JAN 07	16:30		6.03	19	0.5																PWS
JAN 07	19:30		6.03	20	0.5																PWS
JAN 07	22:30		7.57	22	0.5																PWS
JAN 08	01:30		7.83	17	0.5																PWS
JAN 08	04:30		8.82	10	0.5																PWS
JAN 09	15:10	1.0	6.55	5	0.5																PWS
FEB 03	11:45	0.5	1.20	16	0.5																DH48
FEB 06	13:50	4.0	12.4	12	0.5																DH48
FEB 07	14:47	2.0	28.8	83	2.0 X												112				DH48
FEB 22	14:45	2.5	0.808	10	0.5																DH48
FEB 28	13:50	1.5	1.65	1	0.5																DH48
MAR 09	15:30	1.0	1.46	2	0.5												201				DH48
MAR 10	14:00		1.33	40	0.5																DH48
MAR 12	14:00		1.03	11	0.5																PWS
MAR 13	14:00		0.780 W	10	0.5																PWS
MAR 15	14:00		0.761	2	0.5																PWS
MAR 17	14:00		4.13	73	0.5																PWS
MAR 19	14:00		1.87	15	0.5																PWS
MAR 22	14:00		1.12	28	0.5																PWS
MAR 24	14:00		1.81	5	0.5																PWS
MAR 26	14:00	4.5	0.930	5	0.5																PWS
MAR 27	14:00		0.455	7	0.5																PWS
MAR 29	14:00		1.05 W	13	0.5																PWS
MAR 30	12:20	1.5	0.900 W	3	0.5																PWS
MAR 31	14:00		0.800 W	6	0.5																DH48
APR 02	14:00		0.680 W	10	0.5																PWS
APR 03	14:00		0.650 W	35	0.5																PWS
APR 05	14:00		0.740 W	13	0.5																PWS
APR 06	14:40	4.5	0.900 W	11	0.5																PWS
APR 07	14:00		5.49	98	0.5												255				DH48
APR 07	17:30		7.88	50	0.5																PWS
APR 07	20:30		8.84	30	0.5																PWS
APR 07	23:30		8.97	24	0.5																PWS
APR 08	02:30		8.84	18	0.5																PWS
APR 08	05:30		8.16	18	0.5																PWS
APR 08	08:30		7.55	22	0.5																PWS
APR 11	09:35		12.2	11	0.5																PWS
APR 11	12:30		12.4	12	0.5																PWS
APR 11	15:30		14.3	16	0.5																PWS
APR 11	18:30		15.0	12	0.5																PWS
APR 11	21:30		13.3	8	0.5																PWS
APR 12	00:30		11.7	6	0.5																PWS
APR 12	03:30		10.5	8	0.5																PWS
APR 12	14:40		12.5	18	0.5																PWS
APR 12	17:30		12.2	10	0.5																PWS
APR 12	21:00		10.7	8	0.5																PWS
APR 12	23:30		9.21	7	0.5																PWS
APR 13	03:10		7.88	7	0.5																PWS
APR 13	06:30		7.04	5	0.5																PWS
APR 13	09:30		8.44	4	0.5																PWS
APR 13	14:55		8.05	7	0.5																PWS
APR 13	19:00		6.71	28	0.5																PWS
APR 13	22:00		11.1	26	0.5																PWS
APR 14	05:30		24.3 Y	48	0.5																PWS
APR 15	12:30		24.5 Y	15	0.5																PWS
APR 15	16:00		24.5 Y	9	0.5																PWS
APR 15	09:25		14.0 Y	8	0.5																PWS
APR 16	13:54	3.0	14.0 Y	8	0.5																PWS
APR 17	14:00		3.90	4	0.5																DH48
APR 18	03:00		8.15	5	0.5																PWS
APR 18	06:00		7.77	10	0.5																PWS
APR 18	09:00		7.81	7	0.5																PWS
APR 18	12:00		8.88	8	0.5																PWS
APR 18	15:00		10.9	11	0.5																PWS
APR 18	18:00		11.6	8	0.5																PWS
APR 18	21:00		10.5	10	0.5																PWS
APR 26	14:18	2.5	1.79	38	0.5																PWS
APR 28	14:00		3.74	13	0.5																DH48
APR 29	01:30		12.2	87	0.5																PWS
APR 29	04:30		13.1	32	0.5																PWS
APR 29	07:30		11.9	10	0.5																PWS
APR 29	10:30		10.1	5	0.5																PWS
APR 29	13:30		8.88	3	0.5																PWS
APR 30	13:05	4.5	4.19	4	0.5																PWS
APR 30	20:30		6.35	55	0.5																DH48
APR 30	23:30		11.7	35	0.5																PWS
MAY 01	14:00		6.35	12	0.5																PWS
MAY 01	17:00		7.62	8	0.5																PWS
MAY 01	20:00		7.06	8	0.5																PWS
MAY 02	02:00		6.36	3	0.5																PWS
MAY 04	13:25	9.5	2.82	1	0.5																PWS
MAY 05	14:00		3.07	55	0.5																DH48
MAY 07	14:00		3.71	14	0.5																PWS
MAY 08	14:00		2.66	20	0.5																PWS
MAY 12	14:00		2.48	15	0.5																PWS
MAY 14	14:00		1.62	18	0.5																PWS
MAY 15	14:00		1.68	12	0.5																PWS
MAY 17	10:30	10.0	1.87	7	0.5																PWS
MAY 18	14:00		5.58	20	0.5												103				DH48
MAY 18	18:30		8.15	19	0.5																PWS
MAY 18	19:30		9.29	58	0.5																PWS
MAY 19	22:30		10.8	22	0.5																PWS
MAY 20	01:30		9.62	17	0.5																PWS
MAY 20	04:30		8.15	7	0.5																PWS
MAY 22	15:30		20.4	21	0.5																PWS
MAY 22	18:30		18.5	28	0.5																PWS
MAY 22	21:30		13.3	11	0.5																PWS
MAY 23	00:30		11.0	8	0.5																PWS
MAY 23	03:30		8.04	10	0.5																PWS
MAY 23	06:30		7.73	10	0.5																PWS
MAY 25	13:15	11.0	2.70	6	0.5																PWS
																					DH48

NOTE : SINGLE VERTICAL LOCATED AT 0.5 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS Y - DAILY MEAN; ESTIMATED
VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

CONTINUED

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM008 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
MAY 28	13:00		2.16	7	8.5																PWS
MAY 28	13:00		1.82	15	8.5																DH48
MAY 29	14:25	15.0	1.29	4	8.5																PWS
MAY 31	13:00		1.17	5	8.5																PWS
JUN 02	13:00		0.980	23	8.5																PWS
JUN 04	13:00		2.59	27	8.5																PWS
JUN 07	13:00		1.20	10	8.5																DH48
JUN 08	12:30	10.0	0.890	3	8.5																PWS
JUN 09	13:00		1.03	13	8.5																PWS
JUN 10	00:30		7.83	77	8.5																PWS
JUN 11	13:00		1.82	8	8.5																DH48
JUN 12	11:00	10.0	1.63	25	8.5																PWS
JUN 14	13:00		1.08	10	8.5																DH48
JUN 15	13:10	15.0	0.920	10	8.5																PWS
JUN 16	13:00		1.08	6	8.5																PWS
JUN 18	13:00		0.800	5	8.5																PWS
JUN 19	13:00		0.723	8	8.5																PWS
JUN 22	05:30		12.1	81	8.5																PWS
JUN 22	07:00		12.1	43	8.5																PWS
JUN 22	09:30		10.2	28	8.5																PWS
JUN 22	10:30		9.28	21	8.5																DH48
JUN 26	10:25	12.0	1.14	15	8.5												115				DH48
JUL 11	09:25	19.5	0.488	1	8.5																DH48
JUL 17	10:50	17.5	0.383	5	8.0	X															DH48
JUL 20	12:57	23.5	0.410	3	8.0	X											117				DH48
JUL 27	10:07	12.5	0.348	1	8.0	X															DH48
AUG 13	13:32	17.5	0.765	6	8.5																DH48
AUG 17	08:05	18.0	0.327	2	8.5	X															DH48
AUG 20	10:35	18.0	8.17	15	8.5												101				DH48
AUG 30	10:56	18.0	0.789	5	8.5																DH48
SEP 18	12:47	13.5	1.10	2	8.5																DH48
SEP 23	14:10	13.0	1.28	4	8.5												95				DH48
SEP 28	13:08	11.0	1.18	1	8.5																DH48
OCT 05	10:34	10.0	1.02	2	8.5																DH48
OCT 11	08:25	8.0	1.33	4	8.5																DH48
OCT 29	12:00	8.5	0.701	2	8.5																DH48
NOV 06	13:15	12.0	0.630	1	8.5																DH48
NOV 15	13:45	8.5	1.81	5	8.5												93				DH48
NOV 20	14:05	3.0	0.389	1	8.5																DH48
NOV 28	13:30	4.5	0.820	2	8.5																DH48
DEC 17	14:05	1.5	1.28	1	8.5																DH48

NOTE : SINGLE VERTICAL LOCATED AT 8.5 METRES

VERTICAL SYMBOL(S): X - NOT AT REGULAR SINGLE SAMPLE VERTICAL

WATERFORD RIVER AT KILBRIDE - STATION NO. 02ZM008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1978	MAY-DEC	M-S	57	SEP 29	5	JUL 05	40.0	DEC 18	307		---	---	---
1979	JAN-DEC	M-C	303	APR 10 *	3	FEB 05	111	OCT 31	1 890		5.19	5.19	---
1980	JAN-DEC	M-C	118	DEC 30	2	FEB 05	101	AUG 17	2 380		6.52	5.88	11.3
1981	JAN-DEC	M-C	215	AUG 18	2	DEC 14	348	NOV 28 *	3 170	*	8.69	5.80	15.0
1982	JAN-DEC	B-C	94	SEP 18	2	FEB 12	158	SEP 18	1 320		3.63	5.01	17.8
1983	JAN-DEC	B-C	48	MAR 21	1	JAN 31 *	79.8	OCT 25	1 170		3.21	5.45	18.4
1984	JAN-DEC	B-C	97	APR 29	1	FEB 28	103	APR 14	1 080		2.95	5.03	18.2

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 44 56 59 N LONG 65 01 47 W
DRAINAGE AREA: 548 km²
TYPE OF FLOW: REGULATED
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 4 205.60 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	27.8	15 S	35.8	14.8 B	10	12.8	22.8 B	30	59.4	1
2	22.4	8	15.5	14.8 B	3 S	3.75	18.1 B	13	18.1	2
3	18.8 B	7	10.0	14.0 B	3	3.83	12.8 B	8	8.85	3
4	14.3 B	7	8.85	21.0 B	35	63.5	11.1 B	8 S	5.75	4
5	12.7 B	8 S	8.58	30.8 B	37 S	97.5	9.70 B	8	5.03	5
6	10.8 B	8	7.53	57.5 B	17 S	84.5	8.95 B	8	4.64	6
7	13.8 B	10	11.9	38.0 B	14	47.2	8.80 B	8	4.48	7
8	12.0 B	8 S	8.33	32.2 B	13	38.2	7.85 B	7	4.75	8
9	10.2 B	9	7.93	24.3 B	12	25.2	7.40 B	7	4.48	9
10	9.25 B	8 S	7.19	21.3 B	12	22.1	7.10 B	7	4.29	10
11	10.8 B	10	9.42	19.6 B	11	18.8	6.90 B	7 S	4.17	11
12	12.8 B	4	4.42	21.4 B	11	20.3	6.85 B	7	4.02	12
13	11.7 B	4	4.04	23.5 B	11	22.3	6.42 B	7	3.88	13
14	10.7 B	4 S	3.70	20.2 B	11	19.2	6.22 B	7	3.76	14
15	9.75 B	3	3.63	19.2 B	26	43.1	26.8	83 S	187	15
16	9.05 B	4	3.14	25.7 B	41 S	91.0	82.7	38 S	195	16
17	8.55 B	4	2.95	16.9 B	21	30.7	72.5	18 S	118	17
18	8.10 B	3	2.10	14.6	13	18.4	59.2	14	71.8	18
19	7.75 B	3	2.01	12.8 B	8 S	8.85	44.0	12	45.8	19
20	7.30 B	3	1.89	11.7 B	7	7.08	43.5	11 S	41.3	20
21	7.05 B	3 S	1.83	10.7 B	8	8.55	41.3	10	35.7	21
22	8.85 B	3	1.78	9.80 B	5	4.15	38.7	8	27.8	22
23	8.85 B	3	1.72	9.05 B	4	3.13	30.7	8	23.8	23
24	8.45 B	4	2.23	8.90 B	5	4.81	26.7	8	18.5	24
25	11.0 B	37	35.2	14.4 B	52	64.7	22.7	8 S	15.7	25
26	23.5 B	15 S	30.8	22.4 B	18 S	34.8	18.8	7	11.4	26
27	30.8 B	8	18.3	20.3 B	8	14.0	15.7	7	10.1	27
28	17.9 B	8 S	12.4	18.4 B	4	8.38	14.8	8 S	7.87	28
29	15.2 B	7	9.19	17.2 B	29 S	43.1	13.3	8	8.75	29
30	13.8 B	8	9.88				12.5	8	8.40	30
31	13.1 B	4	4.83				12.0	4	4.15	31
TOTAL	388.78		278.25	585.85		854.44	894.59		831.15	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	11.8	4 S	4.01	12.1	5	5.85	7.75	28	17.4	1
2	12.7	7	7.68	13.8	2	2.23	12.8	15	16.8	2
3	14.5	7	8.77	11.8	2	2.00	14.1	12	14.5	3
4	13.8	6	7.15	11.3	15	15.8	12.9	11	12.3	4
5	12.8	5	5.44	18.8	29	47.1	10.4	10	8.88	5
6	13.8	20	23.8	20.7	11 S	19.7	8.80	10	7.80	6
7	21.2	41	75.1	18.2	7	11.0	7.28	9 S	5.85	7
8	21.9	11 S	20.8	14.9	6	7.72	6.88	8	4.80	8
9	19.4	8	13.4	13.3	5 S	5.75	6.18	7	3.73	9
10	16.8	8	11.4	12.8	5	5.44	6.11	6	3.17	10
11	15.7	8	10.8	11.1	5	4.80	5.36	5	2.32	11
12	15.7	7	8.50	9.88	5	4.27	4.95	5 S	2.15	12
13	15.3	10	14.1	11.8	25 S	25.5	4.37	4	1.51	13
14	18.9	23	37.8	15.0	23	29.8	4.48	5	1.94	14
15	21.8	16 S	29.9	18.7	15	24.2	6.28	4	2.17	15
16	23.0	12	23.8	17.2	9	13.4	6.28	3	1.83	16
17	36.5	41 S	128	14.2	8 S	7.38	5.42	3	1.40	17
18	44.1	28	107	12.4	8	8.43	4.82	3 S	1.28	18
19	42.5	12	44.1	12.8	5	5.53	5.77	28	13.0	19
20	32.4	6	18.8	12.3	4	4.26	15.4	26 S	34.6	20
21	25.8	3	8.88	11.0	4	3.80	13.4	18	18.5	21
22	23.4	3 S	8.07	9.88	4	3.40	9.30	12	9.84	22
23	22.9	4	7.81	8.88	3	2.30	7.44	10	6.43	23
24	22.6	3	5.91	8.00	3	2.07	6.58	7 S	3.87	24
25	25.3	46	101	7.78	3	2.01	5.89	6	2.90	25
26	25.0	21	45.4	7.06	3	1.83	6.22	20	10.7	26
27	21.7	12	22.5	8.83	3	1.89	10.5	20	18.1	27
28	18.0	7	10.8	5.88	3	1.53	9.83	10	8.32	28
29	15.4	4 S	5.32	5.88	3	1.44	7.78	6	5.38	29
30	13.6	3	3.88	5.45	2	0.94	8.88	7	4.84	30
31				5.17	2	0.89				31
TOTAL	638.8		815.83	383.83		289.84	238.28		244.69	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	5.87	6 S	2.94	2.88	3	0.75	4.03	6	2.09	1
2	5.03	6	2.61	2.91	3	0.75	4.08	6 S	2.12	2
3	4.56	5	1.97	2.86	3	0.74	4.08	6	2.12	3
4	4.17	5	1.80	2.75	3	0.71	3.84	5	1.88	4
5	3.72	4	1.29	2.85	3	0.89	4.47	9	3.48	5
6	3.87	4	1.23	2.81	3	0.88	5.07	9	3.84	6
7	3.88	4	1.27	2.89	3	0.70	4.88	9	3.84	7
8	10.5	32 S	29.0	2.91	3	0.78	4.03	9	3.13	8
9	24.2	25	52.3	2.82	3	0.78	3.89	9 S	2.87	9
10	24.1	18	33.3	2.74	3	0.71	3.81	8	2.43	10
11	18.7	14 S	20.2	2.86	3	0.77	3.30	8	2.57	11
12	10.8	12	11.3	3.82	11 S	3.73	4.84	8	3.35	12
13	9.21	11	8.78	5.78	28	17.0	4.82	7	3.74	13
14	7.87	10	6.80	14.5	21	26.5	4.32	8	2.99	14
15	7.01	10 S	5.08	20.1	37 S	64.3	6.01	31	16.1	15
16	6.03	9	4.69	17.7	14	21.4	16.5	36 S	51.3	16
17	5.28	8	4.11	13.5	10	11.7	16.1	20	31.3	17
18	4.93	8	3.83	11.5	10	9.84	14.0	9	10.9	18
19	4.62	8	3.12	8.57	10 S	7.40	8.47	6	3.27	19
20	4.23	7	2.58	6.47	9	6.03	6.76	3	1.76	20
21	3.84	7	2.32	5.57	9	4.33	5.53	3	1.43	21
22	3.76	6	1.95	5.42	8	3.75	5.06	3	1.31	22
23	3.63	6	1.67	5.26	7	3.15	4.62	3 S	1.20	23
24	3.62	5	1.56	5.65	13	5.35	4.14	3	1.07	24
25	3.58	4 S	1.23	6.38	7	5.07	3.78	3	0.88	25
26	3.24	4	1.12	6.34	6	4.32	3.70	4	1.28	26
27	2.86	3	0.77	6.84	6	3.80	4.46	3	1.15	27
28	3.22	3	0.83	5.85	6	2.93	4.30	3	1.11	28
29	3.32	3 S	0.86	4.98	6	2.59	3.56	3	0.82	29
30	3.13	3	0.81	4.69	6	2.43	3.14	3 S	0.81	30
31	3.07	3	0.80	4.28	6	2.22				31
TOTAL	203.24		212.95	199.21		215.78	171.80		181.02	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	2.80	3	0.75	3.02	3	0.78	3.22	2	0.56	1
2	2.67	3	0.69	2.87	3	0.74	3.31	2 S	0.57	2
3	2.68	3	0.75	2.97	3	0.77	3.52	2	0.61	3
4	3.38	3	0.88	2.86	3	0.77	3.73	2	0.64	4
5	3.80	3	1.01	2.77	3 S	0.72	3.82	2	0.68	5
6	3.93	3	1.02	2.84	3	0.74	3.86	6	1.85	6
7	3.54 A	3 S	0.92	2.77	3	0.72	6.28	5	3.72	7
8	3.01 E	3	0.78	2.68	3	0.86	6.42 B	4	2.22	8
9	2.80 E	3	0.75	2.41	4	0.83	6.26	4 S	2.16	9
10	2.77 E	3	0.72	2.38	4	0.81	5.42	4	1.87	10
11	2.18 E	3	0.58	2.31	4 S	0.80	11.5	39 S	38.6	11
12	2.40 A	3	0.62	2.33	4	0.81	18.7	21	33.9	12
13	2.28	3	0.59	2.37	4	0.82	16.2	13 S	18.2	13
14	2.26	3 S	0.58	2.48	4	0.85	12.9	8	8.82	14
15	2.26	3	0.59	3.70	5	1.80	9.50 B	4	3.26	15
16	2.21	3	0.57	4.31	3	0.74	8.40 B	4	2.80	16
17	2.08	3	0.54	4.29	2	0.74	8.11	3	2.10	17
18	2.13	3	0.55	4.69	2 S	0.81	7.84	3	2.03	18
19	2.10	3	0.54	4.48	2	0.77	7.19	3	1.86	19
20	1.98	3	0.51	4.15	2	0.72	8.94	3 S	1.80	20
21	1.88	3 S	0.61	3.90	2	0.67	8.22 B	3	1.81	21
22	1.88	3	0.43	4.01	2	0.68	8.42 B	3	1.88	22
23	2.05	3	0.54	3.90	2	0.67	10.8	3	2.80	23
24	2.33	3	0.80	3.85	2	0.66	10.6	2	1.83	24
25	2.31	3	0.80	3.85	2 S	0.67	11.8	6	6.12	25
26	2.26	3	0.58	3.85	2	0.63	10.1 B	5	4.36	26
27	2.33	3	0.58	3.61	2	0.62	11.7 B	4	4.04	27
28	2.14	3	0.55	3.32	2	0.57	14.7	5 S	6.35	28
29	3.88	6	1.15	3.25	3	0.58	15.8	6	8.74	29
30	3.58	4	1.24	3.25	2	0.58	14.7	5 S	6.35	30
31	3.30	4	1.14				13.4	4 S	4.28	31
TOTAL	80.48		21.91	89.30		22.82	277.86		173.82	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 01	15:22	0.5	28.8		8	15.0																D49
JAN 05	10:05	1.0	12.7	W	6	15.0												94				D49
JAN 08	14:00	1.0	12.0	W	9	15.0																D49
JAN 10	16:55	0.5	9.25	W	9	15.0																D49
JAN 14	14:00	0.5	10.7	W	4	15.0												88				D49
JAN 21	14:08	0.5	7.05	W	3	15.0																D49
JAN 25	11:30	0.5	23.5	W	13	15.0																D49
JAN 28	11:05	0.5	17.8	W	9	15.0																D49
FEB 02	11:20	0.5	14.6	W	3	15.0																D49
FEB 05	09:35	0.5	30.5	W	38	15.0																D49
FEB 06	13:05	0.5	57.5	W	18	15.0																D49
FEB 16	10:00	1.0	25.7	W	38	15.0																D49
FEB 18	09:20	1.0	12.8	W	8	15.0																D49
FEB 26	09:35	2.5	22.4	W	14	15.0																D49
FEB 29	17:05	2.5	17.2	W	38	15.0																D49
MAR 04	09:33	0.5	11.1	W	6	15.0												83				D49
MAR 11	08:35	0.5	6.90	W	7	15.0																D49
MAR 15	08:40	0.5	24.0		38	15.0																D49
MAR 16	14:00	2.0	83.2		30	15.0																D49
MAR 17	15:00	4.0	72.2		17	15.0																D49
MAR 20	10:15	3.0	43.8		11	15.0																D49
MAR 25	09:25	0.5	23.2		8	15.0												82				D49
MAR 28	15:40	1.5	14.4		6	15.0																D49
APR 01	08:35	0.5	10.7		4	15.0																D49
APR 08	08:35	3.0	22.2		10	15.0																D49
APR 15	08:20	0.5	21.3		13	15.0																D49
APR 17	13:00	8.0	37.3		23	15.0																D49
APR 22	15:20	5.0	22.8		3	15.0																D49
APR 29	13:10	10.0	15.3		4	15.0																D49
MAY 06	08:12	7.0	20.7		12	15.0																D49
MAY 09	14:35	12.0	13.4		5	15.0																D49
MAY 13	09:15	12.5	10.7		5	15.0												81				D49
MAY 17	10:45	12.0	14.4		8	15.0																D49
JUN 07	10:35	10.5	7.33		8	15.0																D49
JUN 12	15:50	22.0	4.87		4	15.0																D49
JUN 18	15:30	19.5	4.71		3	15.0																D49
JUN 20	20:00	19.0	15.7		21	15.0																D49
JUN 24	08:28	14.0	8.84		7	15.0																D49
JUL 01	19:55	22.0	5.62		6	15.0												116				D49
JUL 08	14:45	22.0	12.1		53	15.0																D49
JUL 11	10:45	19.0	18.3		14	15.0																D49
JUL 15	08:20	20.5	7.09		18	15.0																D49
JUL 25	19:25	22.0	3.58		4	15.0																D49
JUL 29	08:25	18.0	3.34		3	15.0																D49
AUG 12	15:10	23.0	3.78		3	15.0																D49
AUG 15	07:40	22.0	20.4		42	15.0																D49
AUG 18	09:15	20.0	8.84		10	15.0																D49
SEP 02	08:27	18.0	3.97		6	15.0																D49
SEP 09	08:30	14.0	3.67		7	15.0												98				D49
SEP 16	12:40	13.0	18.8		36	15.0																D49
SEP 23	08:45	11.0	4.88		3	15.0																D49
SEP 30	14:50	12.0	3.05		3	15.0																D49
OCT 07	14:40	13.0	3.54		3	15.0																D49
OCT 14	14:05	10.0	2.22		3	15.0																D49
OCT 21	08:35	10.0	2.01		3	15.0												119				D49
NOV 05	16:45	6.0	2.73		3	15.0																D49
NOV 11	09:30	6.0	2.30		4	15.0																D49
NOV 18	16:35	5.0	4.70		2	15.0																D49
NOV 25	09:20	3.0	3.78		2	15.0																D49
DEC 02	14:40	5.0	3.41		2	15.0												89				D49
DEC 09	14:00	1.0	8.13		4	15.0																D49
DEC 11	16:30	3.5	16.2		75	15.0																D49
DEC 13	10:10	0.5	16.6		13	15.0																D49
DEC 20	16:40	2.0	12.3		3	15.0																D49
DEC 26	16:25	0.5	14.8		4	15.0																D49
DEC 30	09:45	1.0	15.0		5	15.0																D49
DEC 31	11:15	0.5	11.9		4	15.0																D49

NOTE : SINGLE VERTICAL LOCATED AT 15.0 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

NOVA SCOTIA

ANNAPOLIS RIVER AT WILMOT - STATION NO. 01DC005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1967	DEC-DEC	M-S	33	DEC 17	4	DEC 25	231	DEC 08	1 470	---	---	---
1968	JAN-DEC	M-C	67	NOV 29	2	JAN 01	265	NOV 30	4 590	12.5	12.5	---
1969	JAN-DEC	M-C	38	MAY 21	1	JUN 15 *	142	DEC 23	3 240	8.87	10.7	17.0
1970	JAN-DEC	M-C	88	MAR 27	1	JAN 11	242	FEB 04	2 930	8.02	9.80	14.0
1971	JAN-DEC	M-C	45	MAY 17	1	JUL 25	341	AUG 17	4 080	11.2	10.1	10.2
1972	JAN-DEC	M-C	51	MAY 05	1	NOV 28	604	MAY 05	5 370	14.7	11.1	10.8
1973	JAN-DEC	M-C	200	DEC 07	1	APR 08	467	DEC 07	8 020	18.5	12.0	11.2
1974	JAN-DEC	M-C	365	SEP 04 *	1	APR 27	259	SEP 04	4 880	13.3	12.2	9.4
1975	JAN-DEC	M-C	112	NOV 14	2	SEP 14	205	MAR 21	4 110	11.3	12.0	8.4
1976	JAN-DEC	M-C	75	DEC 08	1	FEB 01	801	DEC 27	7 570	20.7	13.0	10.0
1977	JAN-DEC	M-C	42	SEP 15	2	AUG 07	230	OCT 03	5 900	16.2	13.3	9.1
1978	JAN-DEC	M-C	67	JAN 15	1	JAN 04	872	JAN 15 *	3 930	10.8	13.1	8.5
1979	JAN-DEC	M-C	77	AUG 13	1	JAN 19	880	JAN 30	8 530 *	23.4	14.0	9.5
1980	JAN-DEC	M-C	60	NOV 11	1	AUG 17	145	APR 05	3 470	9.46	13.6	9.4
1981	JAN-DEC	M-C	74	MAR 31	1	DEC 29	264	NOV 21	5 200	14.2	13.7	8.8
1982	JAN-DEC	M-C	89	APR 28	1	AUG 05	208	APR 29	3 330	9.12	13.4	8.5
1983	JAN-DEC	M-C	86	MAY 03	1	AUG 28	161	MAR 14	3 950	10.8	13.2	8.2
1984	JAN-DEC	M-C	75	DEC 11	2	NOV 18	195	MAR 18	4 200	11.5	13.1	7.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

APRIL BROOK AT GILLISDALE - STATION NO. 01FB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1968	JUN-DEC	M-S	87	NOV 25	2	AUG 28	8.87	NOV 26	65.8	---	---	---
1969	JAN-DEC	M-C	127	FEB 10	1	NOV 04	18.5	DEC 28	179	0.49	0.49	---
1970	JAN-DEC	M-C	163	OCT 17	1	MAR 15	20.2	MAY 02	139	0.38	0.44	12.6
1971	JAN-DEC	M-C	527	FEB 14	0	MAR 08 *	112	FEB 14	448	1.23	0.70	36.1
1972	JAN-DEC	M-C	370	MAY 17	1	FEB 20	187	MAY 17 *	493 *	1.35	0.88	29.0
1973	JAN-DEC	M-C	104	NOV 02	1	FEB 25	9.48	MAY 05	133	0.37	0.75	28.5
1974	JAN-DEC	M-C	880	JUL 11 *	1	JUN 10	88.4	JUL 11	217	0.80	0.74	24.2
1975	JAN-DEC	M-C	280	DEC 11	1	JAN 08	45.2	DEC 11	155	0.43	0.69	22.8
1976	JAN-DEC	M-C	93	DEC 21	1	APR 25	10.8	FEB 23	132	0.36	0.85	21.8
1977	JAN-DEC	M-C	88	JUL 26	3	SEP 21	9.78	DEC 26	114	0.31	0.81	21.5
1978	JAN-DEC	M-C	137	JAN 15	1	FEB 20	19.7	MAY 10	146	0.40	0.69	20.2
1979	JAN-MAR	M-S	73	MAR 08	2	FEB 18	7.51	MAR 08	52.7	---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

APRIL BROOK AT GILLISDALE - STATION NO. 01FB005

MONTHLY AND ANNUAL TOTAL VOLUMETRIC BED LOAD IN CUBIC METRES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	YEAR
1968	---	---	---	---	---	---	---	10.2	3.7	0	3.4	3.5	---	1968
1969	0	5.3	0	5.4	1.1	0	0	0	0	0	1.4	1.1	15.3	1969
1970	0	1.1	0	2.3	5.0	0	0	0	0	4.1	4.3	0	16.8	1970
1971	0	12.8	0	28.4	0	0	0	39.1	0	0	15.6	0	96.9	1971
1972	0	0	0	0	57.2	13.2	0	0	0	2.5	3.3	2.5	77.8	1972
1973	0	0	2.5	2.5	0	0	0	0	0	1.3	2.2	2.5	11.5	1973
1974	0	0	2.5	5.7	2.4	0	0	0	0	0	0	2.4	13.0	1974
1975	0	0	0	5.5	12.1	0	0	0	0	0	1.1	2.4	25.2	1975
1976	1.7	1.7	1.2	1.5	1.1	0	0	0	0	1.5	2.2	2.3	13.2	1976
1977	1.4	0	0	2.3	1.5	0	0	0	---	---	---	---	---	1977
MEAN	0.3	2.4	0.7	5.5	9.0	1.4	0	4.5	0.4	1.0	3.7	1.5	33.5	MEAN

BED LOAD MEASURED BY VOLUMETRIC METHOD. MONTHLY DISTRIBUTION ESTIMATED.

FRASER BROOK NEAR ARCHIBALD - STATION NO. 01DH003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1966	JUL-DEC	M-S	21	OCT 11	1	SEP 28	2.56	DEC 30	26.5	---	---	---
1967	JAN-DEC	M-C	42	MAY 28	0	JUN 26 *	5.51	APR 23	119 *	0.33	0.33	---
1968	JAN-DEC	M-C	40	APR 14	1	JAN 18	2.20	APR 05	70.9	0.20	0.27	24.1
1969	JAN-DEC	M-C	10	MAR 28	1	JAN 30	1.24	MAR 28	13.8	0.04	0.19	44.1
1970	JAN-DEC	M-C	18	MAR 27	1	JAN 19	1.84	MAY 27	38.0	0.10	0.17	37.3
1971	JAN-DEC	M-C	45	MAY 17	0	JAN 19	4.43	MAY 17	46.1	0.13	0.18	31.1
1972	JAN-DEC	M-C	81	MAY 04 *	0	MAR 17	23.2	MAY 05 *	99.8	0.27	0.18	24.7
1973	JAN-DEC	M-C	19	MAR 18	1	FEB 28	4.08	APR 29	45.8	0.13	0.17	22.5
1974	JAN-DEC	M-C	35	MAR 24	1	MAY 08	4.88	MAR 22	80.0	0.17	0.17	19.5
1975	JAN-DEC	M-C	22	DEC 22	1	FEB 18	3.39	JAN 14	40.9	0.11	0.16	18.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

FRASER BROOK NEAR ARCHIBALD - STATION NO. 01DH003

MONTHLY AND ANNUAL TOTAL VOLUMETRIC BED LOAD IN CUBIC METRES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	YEAR
1967	0	0	0	0	0	0	0	0	0	3.1	0	0	3.1	1967
1968	0	0	1.8	0	0	0	0	0	0	0	0	0	1.8	1968
1969	0	0	0	0	0	0	0	0	0.8	0	0	0	0.8	1969
1970	0	0	0	0	0	0	0	0	0.8	0	0	0	0.8	1970
1971	0	3.4	0	0	0	0	0	0	0	0	0	0	3.4	1971
1972	0	0	0.8	0.5	1.9	0.5	0	0	0	0.8	1.8	1.2	7.3	1972
1973	0	0	1.5	1.9	0.9	0.4	0	0.5	0	0	0	0	5.3	1973
MEAN	0	0.5	0.8	0.3	0.4	0.1	0	0.1	0.2	0.5	0.3	0.2	3.2	MEAN

BED LOAD MEASURED BY VOLUMETRIC METHOD. MONTHLY DISTRIBUTION ESTIMATED.

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 45 35 10 N LONG 64 27 05 W
DRAINAGE AREA: 63.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 174.18 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

JAN				FEB				MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	2.30 B	6	1.71	1.10 B	2	0.19		2.34	3	0.61	1
2	2.84 B	7	1.72	1.03 B	3	0.27		1.98 B	3	0.51	2
3	2.45 B	8 S	1.89	0.940 B	2	0.18		1.65 B	2	0.28	3
4	2.15 B	6	1.11	0.880 B	3	0.23		1.40 B	2	0.24	4
5	1.86 B	5	0.80	7.30 B	3	1.89		1.24 B	2 S	0.21	5
6	1.82 B	4	0.56	5.40 B	2	0.93		1.13 B	3	0.29	6
7	3.09 B	3	0.54	3.70 B	3	0.96		1.02 B	2	0.18	7
8	2.71 B	3	0.70	2.60 B	3	0.67		0.920 B	3	0.24	8
9	2.30 B	3	0.60	1.80 B	2	0.31		0.880 B	4	0.30	9
10	1.74 B	3	0.45	1.44 B	3	0.37		0.800 B	4	0.28	10
11	2.16 B	2	0.36	1.23 B	2	0.21		0.780 B	2	0.13	11
12	2.87 B	3	0.89	1.12 B	4	0.38		0.700 B	2	0.12	12
13	2.18 B	3	0.57	1.04 B	3	0.27		0.640 B	2	0.11	13
14	1.84 B	3	0.50	0.980 B	3	0.25		0.600 B	1	0.05	14
15	1.62 B	3	0.42	2.60 B	3	0.67		2.30 B	1	0.20	15
16	1.46 B	3	0.38	2.30 B	3 S	0.60		11.0 B	1	0.95	16
17	1.32 B	2	0.23	1.87 B	4 S	0.58		18.8	3	5.13	17
18	1.21 B	2	0.21	1.70 B	5 S	0.73		11.6	3	3.01	18
19	1.10 B	2	0.19	1.50 B	3 S	0.38		5.01	3	1.30	19
20	1.04 B	2	0.18	1.28 B	2 S	0.22		8.47	4	3.27	20
21	0.980 B	3	0.28	1.14 B	3	0.30		7.35	3	1.91	21
22	0.890 B	2	0.16	1.05 B	3	0.27		5.87	3	1.55	22
23	0.820 B	3	0.21	0.980 B	3	0.28		5.87	2	0.98	23
24	0.780 B	4	0.27	0.840 B	2	0.18		4.08	2	0.70	24
25	1.65 B	3	0.43	3.60 B	2	0.80		2.87	2	0.48	25
26	3.95 B	4	1.23	2.70 B	2	0.47		2.05	3	0.53	26
27	2.70 B	4	0.83	2.35	4	0.81		1.74	2	0.30	27
28	2.15 B	4	0.74	2.05	3	0.53		1.48	3	0.39	28
29	1.77 B	3	0.46	1.87	3	0.48		1.30	2	0.22	29
30	1.52 B	2	0.28					1.24	2	0.21	30
31	1.30 B	2	0.22					1.17	2	0.20	31
TOTAL	57.860		18.78	58.490		14.27		109.820		24.87	TOTAL

APR				MAY				JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)		DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.38	2	0.24	1.61	7 S	0.97		1.65	3	0.43	1
2	1.49	2	0.26	1.54	3	0.40		2.24	3	0.58	2
3	1.97	3	0.51	1.35	3 S	0.35		2.18	2	0.37	3
4	2.33	3	0.59	1.22	2	0.21		1.47	1 S	0.13	4
5	2.27	3	0.59	1.95	3	0.51		1.05	1	0.09	5
6	6.82	4	2.39	1.85	1	0.18		0.812	1	0.07	6
7	10.6	12	11.2	1.63	2 S	0.28		0.874	1 S	0.08	7
8	5.24	3	1.36	1.33	2	0.23		0.889	1	0.08	8
9	2.98	2	0.51	1.24	2	0.21		0.785	1	0.05	9
10	2.15	2	0.37	1.19	3 S	0.31		0.688	2	0.08	10
11	1.89	2	0.33	0.980	3	0.28		0.388	2 S	0.07	11
12	1.72	1	0.15	0.778	3	0.20		0.382	3	0.10	12
13	1.84	3	0.43	11.6	10 S	10.0		0.333	2	0.08	13
14	1.78	3	0.46	7.26	3 S	1.68		0.324	3 S	0.08	14
15	2.41	3	0.82	6.46	4 S	2.23		0.525	3	0.14	15
16	2.74	3	0.87	3.85	4	1.28		0.808	2	0.11	16
17	16.7	8	11.5	2.61	4 S	0.83		0.504	1	0.04	17
18	11.5	2 S	1.98	1.95	4	0.67		0.370	2 S	0.08	18
19	4.83	1 S	0.43	2.24	4	0.77		1.23	4 S	0.43	19
20	3.20	1	0.28	1.65	3	0.48		3.21	8	2.22	20
21	2.61	1	0.22	1.55	2	0.27		1.62	4 S	0.56	21
22	2.27	1	0.20	1.25	1 S	0.11		1.28	3	0.33	22
23	2.18	1 S	0.19	1.12	1	0.10		1.25	1	0.11	23
24	2.34	2	0.40	0.938	1 S	0.08		1.12	1	0.10	24
25	4.98	2 S	0.88	0.815	1	0.07		0.759	1 S	0.07	25
26	8.48	4 S	2.24	0.864	2	0.11		0.748	3	0.18	26
27	4.40	4 S	1.52	0.597	2	0.10		1.39	2	0.24	27
28	2.94	3	0.78	0.502	2 S	0.09		1.07	1 S	0.09	28
29	2.09	2	0.36	0.432	1	0.04		0.762	2	0.13	29
30	1.78	4 S	0.81	0.483	2	0.08		0.676	2	0.12	30
31				0.478	2 S	0.08					31
TOTAL	118.88		42.14	82.811		23.31		30.303		7.17	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.585	2	0.10	0.210	2	0.04	0.278	3	0.07	1
2	0.454	1	0.04	0.174	2	0.03	0.277	2	0.05	2
3	0.355	1	0.03	0.158	2	0.02	0.275	2 S	0.05	3
4	0.291	2 S	0.05	0.144	1	0.01	0.280	2	0.04	4
5	0.308	3	0.08	0.134	1	0.01	0.348	3	0.09	5
6	0.899	4	0.35	0.134	1	0.01	0.470	7 S	0.28	6
7	1.08	3	0.28	0.132	2	0.02	0.405	6	0.21	7
8	11.1	14	13.4	0.147	1 S	0.01	0.285	5	0.12	8
9	8.78	5 S	3.78	0.149	1	0.01	0.278	5	0.14	9
10	3.19	2	0.55	0.139	1	0.01	0.224	5 S	0.10	10
11	1.72	2	0.30	0.128	1	0.01	0.173	2 S	0.03	11
12	1.30	2	0.22	0.167	2	0.03	1.26	5	0.54	12
13	1.15	2	0.20	0.463	3 S	0.12	1.05	3	0.27	13
14	0.774	2	0.13	1.11	5	0.48	0.806	2	0.14	14
15	0.622	1	0.05	1.55	9	1.21	1.10	2 S	0.19	15
16	0.580	1	0.05	1.68	18 S	2.61	4.67	9	3.63	16
17	0.492	2 S	0.08	1.30	10	1.12	2.50	1 S	0.22	17
18	0.438	1 S	0.04	0.857	4	0.30	1.47	1	0.13	18
19	0.384	1	0.03	0.567	4	0.20	0.971	2 S	0.17	19
20	0.362	1	0.03	0.447	6 S	0.23	0.894	2	0.12	20
21	0.307	2	0.05	0.585	2	0.10	0.580	1	0.05	21
22	0.268	1	0.02	0.422	2	0.07	0.474	2	0.08	22
23	0.259	1 S	0.02	0.334	5 S	0.14	0.404	2	0.07	23
24	0.287	2	0.05	0.740	5	0.32	0.364	1	0.03	24
25	0.263	1	0.02	2.08	9	1.62	0.332	2	0.06	25
26	0.218	1	0.02	1.04	3	0.27	0.383	1	0.03	26
27	0.234	1	0.02	0.632	2 S	0.11	0.868	2	0.15	27
28	0.243	1	0.02	0.473	2	0.08	0.635	2	0.11	28
29	0.350	2	0.06	0.438	3	0.11	0.476	2	0.06	29
30	0.278	1 S	0.02	0.372	3	0.10	0.391	2	0.07	30
31	0.238	2	0.04	0.324	3	0.08				31
TOTAL	37.686		20.15	17.226		9.49	22.778		7.32	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.362	1 S	0.03	0.459	1	0.04	0.435	1	0.04	1
2	0.389	2	0.07	0.468	1	0.04	0.528	1	0.05	2
3	1.10	2	0.19	0.591	1	0.05	0.564	1	0.05	3
4	1.33	2	0.23	0.501	1	0.04	0.691	1 S	0.06	4
5	1.27	1	0.11	0.452	1 S	0.04	0.633	1 S	0.05	5
6	0.833	1	0.08	0.467	2	0.08	0.620 B	1	0.05	6
7	0.677	1	0.06	0.476	4 S	0.16	0.785 B	1	0.07	7
8	0.671	1	0.05	0.406	3 S	0.11	0.765 B	2	0.13	8
9	0.564	2 S	0.10	0.350	2	0.06	0.730 B	1	0.06	9
10	0.557	2	0.10	0.328	2	0.05	0.705 B	1 S	0.05	10
11	0.483	1	0.04	0.345	2	0.06	0.800 B	5	0.39	11
12	0.458	1	0.04	0.369	2	0.06	2.08	2	0.38	12
13	0.413	2	0.07	0.370	1 S	0.03	1.68	1	0.15	13
14	0.380	2	0.07	0.488	2	0.08	1.32	1	0.11	14
15	0.358	2 S	0.08	0.720	2	0.12	0.950 B	1	0.08	15
16	0.327	1 S	0.03	0.756	1	0.07	0.630 B	1	0.07	16
17	0.306	2	0.05	0.673	1	0.08	0.750 B	1 S	0.06	17
18	0.295	2 S	0.05	0.688	2	0.12	0.712	1	0.05	18
19	0.284	2	0.05	0.562	1 S	0.05	0.618	1	0.05	19
20	0.263	1	0.02	0.525 B	1	0.05	0.592	1	0.05	20
21	0.261	1	0.02	0.490 B	1	0.04	0.540 B	1	0.05	21
22	0.277	1 S	0.02	0.482 B	2	0.08	0.700 B	1	0.06	22
23	0.434	2	0.07	0.440 B	2	0.08	0.840 B	1	0.08	23
24	0.562	1	0.05	0.421	2	0.07	0.800 B	2	0.10	24
25	0.469	1	0.04	0.400 B	2	0.07	0.570 B	2	0.10	25
26	0.396	2	0.07	0.378 B	1 S	0.03	0.980 B	1	0.08	26
27	0.345	1	0.03	0.358 B	1	0.03	0.870 B	1 S	0.08	27
28	0.332	1	0.03	0.351	1	0.03	0.790 B	1	0.07	28
29	0.462	1	0.04	0.364	1	0.03	0.720 B	0	0	29
30	0.852	2 S	0.11	0.413	1	0.04	0.880 B	1	0.08	30
31	0.621	2	0.09				0.630 B	1 S	0.05	31
TOTAL	18.080		2.07	14.258		1.80	24.809		2.71	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE VERTICAL SAMPLING (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 03	11:30		2.45	W	10	1QLB																DH48
FEB 16	11:35		2.30	W	5	---																PWS
FEB 16	17:00		2.30	W	3	---																PWS
FEB 17	05:00		1.97	W	2	---																PWS
FEB 17	17:00		1.97	W	4	---																PWS
FEB 18	05:00		1.70	W	2	---																PWS
FEB 18	17:00		1.70	W	5	---																PWS
FEB 19	05:00		1.50	W	2	---																PWS
FEB 20	17:00		1.28	W	2	---																PWS
MAR 05	12:08		1.24	W	1	---																PWS
APR 18	12:00		9.31		1	---																PWS
APR 18	13:40		9.39		2	---																PWS
APR 19	02:00		5.78		2	---																PWS
APR 19	14:00		4.10		2	---																PWS
APR 23	14:00		1.78		1	---																PWS
APR 25	14:00		4.66		3	---																PWS
APR 26	02:00		5.78		4	---																PWS
APR 26	14:00		5.51		2	---																PWS
APR 27	14:00		5.09		4	---																PWS
APR 30	14:00		1.48		4	---																PWS
MAY 01	13:20	8.5	1.85		8	1QLB																PWS
MAY 03	14:00		1.11		3	---												25				DH48
MAY 07	09:20	9.0	1.56		1	1QLB																PWS
MAY 07	14:00		1.33		3	---																DH48
MAY 10	09:30		1.03		4	---																PWS
MAY 10	10:00		1.03		3	---																PWS
MAY 10	14:00		0.984		5	---																PWS
MAY 13	14:00		16.3		11	---																PWS
MAY 14	02:00		8.59		4	---																PWS
MAY 14	09:40	11.0	5.16		1	1QLB																PWS
MAY 14	14:00		4.59		4	---																DH48
MAY 15	02:00		7.09		4	---																PWS
MAY 15	14:00		5.79		5	---																PWS
MAY 17	14:00		2.02		4	---																PWS
MAY 22	10:30	13.0	1.25		1	1QLB																PWS
MAY 24	14:00		0.805		1	---																DH48
MAY 28	08:40	14.5	0.575		3	1QLB																PWS
MAY 28	14:00		0.466		1	---																DH48
MAY 31	14:00		0.435		4	---																PWS
JUN 04	10:10	12.0	1.48		1	1QLB																PWS
JUN 04	14:00		1.19		3	---																DH48
JUN 07	14:00		0.555		1	---																PWS
JUN 11	09:15	19.5	0.351		2	1QLB																PWS
JUN 11	14:00		0.315		8	---												34				DH48
JUN 14	14:00		0.228		3	---																PWS
JUN 18	09:05	15.5	0.306		1	1QLB																PWS
JUN 18	14:00		0.245		3	---																DH48
JUN 19	11:50	18.0	0.429		1	1QLB																PWS
JUN 21	14:00		1.31		4	---																DH48
JUN 25	14:00		0.803		1	---																PWS
JUN 28	14:00		0.881		2	---																PWS
JUL 04	08:25	20.5	0.340		1	1QLB																PWS
JUL 09	08:30	18.5	10.3		5	1QLB																DH48
JUL 17	08:30		0.474		7	---												48				DH48
JUL 17	10:00	20.5	0.388		2	1QLB																PWS
JUL 18	08:10	20.0	0.389		1	1QLB																DH48
JUL 23	10:05	21.0	0.228		1	1QLB																DH48
JUL 30	09:35	19.0	0.258		1	1QLB																DH48
AUG 08	14:15	21.5	0.143		1	1QLB																DH48
AUG 13	10:40		0.400		9	---																DH48
AUG 13	11:00	21.5	0.400		1	1QLB																PWS
AUG 13	14:00		0.655		9	---																DH48
AUG 18	08:30	21.0	1.93		9	1QLB																PWS
AUG 18	14:00		1.93		33	---																DH48
AUG 20	14:00		0.435		10	---																PWS
AUG 23	14:00		0.638		9	---																PWS
AUG 27	09:25	15.5	1.78		1	1QLB																PWS
AUG 27	14:00		0.377		2	---																DH48
SEP 03	10:00	18.5	0.287		1	1QLB																PWS
SEP 03	14:00		0.302		7	---												40				DH48
SEP 08	14:00		0.534		8	---																PWS
SEP 10	12:15		0.240		6	---																PWS
SEP 11	12:00	15.5	0.189		1	1QLB																PWS
SEP 11	12:55		0.189		4	---																DH48
SEP 15	14:00		1.65		2	---																PWS
SEP 17	08:45	12.0	12.8		1	1QLB																PWS
SEP 18	14:00		0.789		3	---																DH48
OCT 01	09:15	9.0	0.345		1	1QLB																PWS
OCT 09	09:00	10.0	0.575		1	1QLB																DH48
OCT 15	09:45	6.5	0.340		1	1QLB																DH48
OCT 16	09:45		0.340		1	---																DH48
OCT 16	12:30	7.0	0.335		1	1QLB																PWS
OCT 18	14:00		0.377		7	---																DH48
OCT 22	09:45	13.0	0.345		1	1QLB																PWS
OCT 30	09:35	5.5	0.899		1	1QLB												32				DH48
NOV 05	09:45	4.5	0.448		1	1QLB																DH48
NOV 07	14:00		0.480		8	---																DH48
NOV 08	09:00		0.520		4	---																PWS
NOV 13	10:55	10.0	0.389		1	1QLB																PWS
NOV 18	11:15	0.5	0.582		1	1QLB																DH48
NOV 26	09:20	0.5	0.882		1	1QLB																DH48
DEC 04	10:15	3.5	0.882		1	1QLB																DH48
DEC 04	18:00		0.595		4	---												39				DH48
DEC 05	11:00	2.0	1.66		1	1QLB																PWS
DEC 10	11:30	0.0	1.03		1	1QLB																DH48
DEC 17	10:00	5.5	0.859		1	1QLB																DH48
DEC 27	14:00	0.0	0.870	W	1	1QLB																DH48
DEC 31	11:00	1.5	0.830	W	1	1QLB																DH48

NOTE : SINGLE VERTICAL LOCATED AT 1ORB

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

NOVA SCOTIA

KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD - STATION NO. 01DL001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1971	JAN-DEC	A-C	18	OCT 11	0	JUN 15 *	15.2	APR 15	250	0.69	0.69	---
1972	JAN-DEC	A-C	71	MAY 04 *	0	JUN 27	252	MAY 04 *	935 *	2.56	1.83	57.4
1973	MAY-DEC	A-S	24	JUN 17	0	OCT 26	8.98	JUN 17	142	---	---	---
1974	JUL-DEC	M-S	14	DEC 10	1	OCT 08	35.2	NOV 26	188	---	---	---
1975	JAN-DEC	M-C	8	APR 21	1	JAN 08	188	NOV 14	529	1.45	1.57	34.8
1976	JAN-DEC	M-C	27	AUG 30	1	MAR 01	83.7	JAN 29	685	1.87	1.84	23.8
1977	JAN-DEC	M-C	18	JUL 13	2	FEB 14	85.1	OCT 02	547	1.50	1.61	18.8
1978	JAN-DEC	M-C	6	MAR 07	1	APR 17	77.8	APR 21	263	0.72	1.47	19.7
1979	JAN-DEC	M-C	30	JAN 03	1	FEB 08	70.6	MAR 15	550	1.51	1.47	18.7
1980	JAN-DEC	M-C	8	APR 21	1	JAN 21	50.2	DEC 04	271	0.74	1.38	18.7
1981	JAN-DEC	M-C	8	OCT 19	1	JAN 05	108	DEC 03	480	1.32	1.37	14.8
1982	JAN-DEC	M-C	7	MAY 19	1	JAN 12	26.9	APR 29	189	0.55	1.29	15.5
1983	JAN-DEC	M-C	7	MAY 03	1	APR 21	18.7	DEC 14	205	0.57	1.23	15.8
1984	JAN-DEC	M-C	33	AUG 15	1	MAR 05	13.4	JUL 03	173	0.48	1.18	16.1

A - AUTOMATIC SAMPLING

C - CONTINUOUS OPERATION

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 45 28 50 N LONG 62 45 51 W
DRAINAGE AREA: 92.2 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 687.24 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	5.75 B	2	0.99	2.54 B	1	0.22	4.54	5	1.96	1
2	5.13 B	1	0.44	2.47 B	1	0.21	2.40 B	4	0.83	2
3	4.65 B	1	0.40	2.28 B	1	0.20	2.00 B	3	0.35	3
4	4.10 B	1	0.35	2.19 B	3	0.57	1.80 B	2	0.31	4
5	3.75 B	1	0.32	19.2 B	11	18.2	1.65 B	2	0.29	5
6	3.50 B	1	0.30	17.1	1	1.46	1.58 B	3	0.41	6
7	7.50 B	1	0.85	8.22	1	0.71	1.52 B	2	0.28	7
8	4.70 B	1	0.41	4.35 B	1	0.38	1.45 B	2	0.25	8
9	3.71 B	1	0.32	3.45 B	1	0.30	1.40 B	2	0.24	9
10	3.32 B	1	0.29	2.51 B	2	0.43	1.36 B	2	0.24	10
11	15.1	1	1.38	3.00 B	1	0.28	1.32 B	1	0.11	11
12	6.80 B	1	0.59	4.31 B	2	0.74	1.27 B	1	0.11	12
13	4.80 B	2	0.78	3.02 B	2	0.52	1.25 B	2	0.22	13
14	3.74 B	1	0.32	2.34 B	2	0.40	1.22 B	2	0.21	14
15	3.29 B	1	0.28	3.62 B	1	0.31	8.20 B	2	1.07	15
16	3.07 B	1	0.27	8.35	1	0.72	15.3 B	3	3.16	16
17	2.92 B	1	0.25	5.08	2 S	0.88	17.7	2	3.06	17
18	2.82 B	1	0.24	3.84	3	1.00	8.84	3	1.85	18
19	2.81 B	1	0.23	3.07	2	0.53	7.08	3	1.23	19
20	2.67 B	2	0.44	2.69	2	0.46	8.87	3	1.53	20
21	2.52 B	2	0.44	2.11 B	2	0.36	6.34	3	1.84	21
22	2.44 B	1	0.21	1.82 B	1	0.16	6.30	3	1.83	22
23	2.36 B	1	0.20	1.68 B	1	0.15	5.67	3	1.70	23
24	2.33 B	1	0.20	3.25	5	1.68	5.71	1	0.49	24
25	5.45 B	8	4.24	9.88	5	4.17	3.50 B	1	0.30	25
26	14.6 B	1	1.38	5.28	2	0.81	2.70 B	1	0.23	26
27	8.20 B	2	1.07	2.95 B	2	0.51	2.38 B	1	0.21	27
28	3.95 B	2	0.68	2.80 B	2	0.45	2.14 B	1	0.18	28
29	3.25 B	2	0.58	3.45 B	7	2.09	2.03 B	1	0.18	29
30	2.80 B	2	0.50				1.85 B	1	0.17	30
31	2.72 B	1	0.24				1.86 B	1	0.18	31
TOTAL	143.62		18.89	136.45		39.00	133.84		24.38	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.80 B	1	0.16	3.84	3 S	1.02	2.08	5 S	0.88	1
2	1.90 B	1	0.16	3.65	2 S	0.63	2.62	4 S	0.97	2
3	2.08 B	2	0.36	3.05	2 S	0.53	2.25	3 S	0.38	3
4	2.28 B	1	0.20	2.81	2 S	0.48	1.89	3 S	0.27	4
5	2.52 B	2	0.44	5.83	5 S	3.02	1.25	3 S	0.22	5
6	8.91	18	15.4	4.80	3 S	0.78	1.04	2 S	0.18	6
7	15.0	8	10.4	3.75	3 S	0.57	0.877	2 S	0.15	7
8	6.03	2	1.38	3.87	3 S	0.74	0.846	2 S	0.15	8
9	5.47	3	1.42	4.19	3 S	1.08	0.751	2 S	0.13	9
10	4.59	2	0.79	3.62	3 S	0.94	0.652	3 S	0.11	10
11	7.32	8	3.78	2.75	2 S	0.48	0.575	1 S	0.05	11
12	7.32	3	1.80	3.24	3 S	0.68	0.583	2 S	0.10	12
13	9.22	4	3.19	3.15	4 S	1.83	0.604	3 S	0.09	13
14	8.36	3	2.17	5.86	22 S	11.2	0.469	2 S	0.06	14
15	9.02	3	2.34	13.9	18 S	18.2	0.529	2 S	0.09	15
16	8.48	5 S	3.67	8.35	5 S	2.74	0.482	1 S	0.04	16
17	23.3	124 S	250	4.43	4 S	1.63	0.371	2 S	0.06	17
18	18.3	32 S	50.6	4.76	15 S	8.17	0.315	1 S	0.03	18
19	10.6	21 S	19.1	6.00	9 S	4.67	0.250	2 S	0.06	19
20	7.59	86 S	44.8	4.30	3 S	1.11	1.15	8 S	0.79	20
21	7.80	12 S	7.88	3.30	5 S	1.43	0.706	2 S	0.12	21
22	8.84	3 S	1.72	2.80	4 S	0.90	1.15	8	0.79	22
23	5.84	3 S	1.46	2.23	3 S	0.38	2.88	6	1.36	23
24	5.82	3 S	1.46	2.13	3 S	0.37	3.31	5	1.72	24
25	10.1	11 S	8.80	3.95	4 S	0.71	1.38	4	0.47	25
26	9.40	5 S	4.05	1.88	1 S	0.15	1.81	9	1.49	26
27	7.05	3 S	1.83	1.49	1 S	0.13	3.88	5	1.54	27
28	5.37	3 S	1.39	1.17	2 S	0.20	1.88	3	0.44	28
29	4.63	3 S	1.20	1.10	2 S	0.21	1.10	2	0.19	29
30	4.07	3 S	1.05	1.06	2 S	0.18	0.881	3	0.22	30
31				1.13	2 S	0.20				31
TOTAL	228.12		443.73	111.88		84.39	37.783		13.22	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.730	1	0.06	0.136	1	0.01	0.744	1	0.06	1
2	0.611	2	0.11	0.144	1	0.01	3.02	18	4.86	2
3	0.517	1	0.04	0.106	1	0.01	4.50	8	3.11	3
4	0.408	2	0.07	0.080	2	0.02	2.52	3	0.65	4
5	0.376	1	0.03	0.100	2	0.02	1.78	2	0.31	5
6	0.350	1	0.03	0.094	2	0.02	1.48	2	0.28	6
7	0.313	1	0.03	0.083	1	0.01	1.13	3	0.29	7
8	0.311	1	0.03	0.100	1	0.01	0.871	2	0.15	8
9	0.683	2	0.15	0.174	1	0.02	0.783	2	0.14	9
10	0.855	2	0.11	0.117	1	0.01	0.686	1	0.06	10
11	0.680	2	0.08	0.428	4	0.15	0.586	1	0.05	11
12	0.367	2	0.06	0.550	1	0.05	1.10	5	0.48	12
13	0.389	2	0.07	0.445	2	0.08	0.933	1	0.08	13
14	0.283	2	0.05	1.22	5	0.53	0.905	2	0.16	14
15	0.231	2	0.04	2.03	5	0.88	1.15	3	0.30	15
16	0.223	2	0.04	0.880	3	0.22	3.97	10	3.39	16
17	0.217	1	0.02	0.843	4 S	0.23	2.12	2	0.37	17
18	0.196	1	0.02	0.958	2	0.17	1.22	2	0.21	18
19	0.183	2	0.03	0.827	2	0.11	0.956	2 S	0.17	19
20	0.185	1	0.01	1.03	7	0.82	0.838	2	0.14	20
21	0.140	2	0.02	2.48	3	0.84	0.773	2	0.13	21
22	0.144	1	0.01	0.961	3	0.25	0.733	2	0.13	22
23	0.142	2	0.02	0.837	3	0.19	0.612	2	0.11	23
24	0.143	2	0.02	11.6	30	30.1	0.570	2	0.10	24
25	0.118	2	0.02	14.1	10	12.2	0.502	1	0.04	25
26	0.095	2	0.02	4.40	2	0.78	0.507	1	0.04	26
27	0.100	1 S	0.01	2.32	1	0.18	0.721	1	0.05	27
28	0.418	0	0	1.48	2	0.26	0.633	1	0.05	28
29	0.471	2	0.08	1.11	1	0.10	0.452	1	0.04	29
30	0.301	2	0.05	0.929	1	0.08	0.397	1	0.03	30
31	0.207	1	0.02	0.891	1	0.07				31
TOTAL	10.184		1.35	80.843		47.88	37.140		18.07	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.382	1	0.03	0.411	1 S	0.04	0.855	1 S	0.08	1
2	0.358	2	0.06	0.545	1 S	0.05	0.854	2 S	0.15	2
3	0.849	2	0.15	0.804	1 S	0.07	0.895	2 S	0.15	3
4	0.800	2	0.14	0.824	1 S	0.05	1.14	3 S	0.30	4
5	0.958	1	0.08	0.826	1 S	0.08	0.877	2 S	0.17	5
6	0.722	2	0.12	0.590	1 S	0.05	1.13	5 S	0.59	6
7	0.658	2	0.11	0.708	1 S	0.08	2.17	5 S	0.84	7
8	0.588	1	0.05	0.570	1 S	0.06	1.38 B	2 S	0.24	8
9	0.485	1 S	0.04	0.491	0 S	0	1.17 B	2 S	0.20	9
10	0.418	1	0.04	0.444	1 S	0.04	1.02 B	2 S	0.18	10
11	0.395	1	0.03	0.430	1 S	0.04	3.53	5 S	1.52	11
12	0.396	1	0.03	0.422	1 S	0.04	4.28	5 S	2.23	12
13	0.349	1	0.03	0.403	1 S	0.03	2.87	2	0.46	13
14	0.403	1	0.03	1.21	3 S	0.31	2.01	1	0.17	14
15	0.388	1 S	0.03	1.58	2 S	0.27	1.82	1	0.14	15
16	0.318	1 S	0.03	1.28	1 S	0.11	1.33 B	1	0.11	16
17	0.302	1 S	0.03	1.54	1 S	0.13	1.14 B	1	0.10	17
18	0.293	1 S	0.03	1.11	1 S	0.10	1.02 B	1	0.09	18
19	0.280	1 S	0.03	0.851	1 S	0.08	0.940 B	1	0.08	19
20	0.271	2 S	0.05	0.824	1 S	0.07	0.880 L	1	0.08	20
21	0.272	1 S	0.02	0.[illegible]7	2 S	0.14	0.830 B	1	0.07	21
22	0.268	1 S	0.02	0.748	2 S	0.13	1.28	1	0.11	22
23	0.388	1 S	0.03	0.738	1 S	0.08	1.81	1	0.16	23
24	0.458	1 S	0.04	0.761	2 S	0.13	1.81	1	0.14	24
25	0.405	1 S	0.04	0.703	1 S	0.08	7.08	7	4.27	25
26	0.348	1 S	0.03	0.895	1 S	0.08	3.61	3	0.84	26
27	0.318	1 S	0.03	0.783	1 S	0.07	1.63	1	0.14	27
28	0.320	1 S	0.03	0.883	1 S	0.08	2.30 B	0	0	28
29	0.490	1 S	0.04	0.852	1 S	0.08	1.75 B	1	0.15	29
30	0.586	1 S	0.05	0.885	2 S	0.12	1.52 B	1	0.13	30
31	0.485	1 S	0.04				1.40 B	1	0.12	31
TOTAL	13.845		1.81	22.880		2.63	55.483		14.18	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
FEB 17	10:50	1.0	4.88	3	5.0																DH59
APR 16	17:30	2.0	8.89	4	5.0																DH59
APR 17	17:10	4.0	35.3	153	5.0																DH59
APR 18	17:50	4.2	16.5	19	5.0																DH59
APR 19	17:10	2.8	9.51	24	5.0																DH59
APR 20	17:10	10.0	7.86	75	5.0																DH59
APR 21	11:42	6.1	7.30	4	5.0																DH59
APR 22	13:24	3.1	8.49	3	5.0																DH59
APR 23	17:25	8.0	8.44	3	5.0																DH59
APR 24	17:25	10.0	8.42	2	5.0																DH59
APR 25	17:02	5.0	10.0	6	5.0																DH59
APR 26	17:04	5.0	8.13	4	5.0																DH59
APR 27	17:47	5.0	8.42	3	5.0																DH59
APR 28	14:47	5.0	5.16	3	5.0																DH59
APR 29	16:24	5.0	4.52	3	5.0																DH59
APR 30	16:15	6.0	4.08	1	5.0																DH59
MAY 01	16:22	11.0	4.00	2	5.0																DH59
MAY 02	16:00	15.0	3.53	1	5.0																DH59
MAY 03	17:13	11.0	2.90	2	5.0																DH59
MAY 04	16:13	14.0	2.68	1	5.0																DH59
MAY 05	15:19	14.0	5.94	4	5.0																DH59
MAY 06	14:32	13.0	4.30	1	5.0																DH59
MAY 07	16:05	15.0	3.58	2	5.0																DH59
MAY 08	16:18	13.0	2.86	2	5.0																DH59
MAY 09	16:21	13.0	4.89	4	5.0																DH59
MAY 10	16:03	16.0	3.37	2	5.0																DH59
MAY 11	16:29	11.1	2.59	2	5.0																DH59
MAY 12	16:35	16.0	2.22	2	5.0																DH59
MAY 13	15:18	15.0	3.66	4	5.0																DH59
MAY 14	16:23	11.0	3.34	7	5.0																DH59
MAY 15	16:26	10.0	8.79	7	5.0																DH59
MAY 16	16:14	17.0	5.87	128	5.0																DH59
MAY 17	16:13	14.0	4.22	3	5.0																DH59
MAY 18	16:38	15.0	4.75	27	5.0																DH59
MAY 19	16:49	17.0	5.35	2	5.0																DH59
MAY 20	16:42	11.0	3.99	3	5.0																DH59
MAY 21	16:17	11.0	3.20	8	5.0																DH59
MAY 22	16:15	17.0	2.61	3	5.0																DH59
MAY 23	16:27	17.0	2.28	1	5.0																DH59
MAY 24	16:10	12.0	2.13	2	5.0																DH59
MAY 25	16:42	17.0	2.01	4	5.0																DH59
MAY 26	16:11	18.0	1.55	1	5.0																DH59
MAY 27	17:58	18.0	1.38	1	5.0																DH59
MAY 28	16:07	12.0	1.30	2	5.0																DH59
MAY 29	16:29	15.0	1.19	1	5.0																DH59
MAY 30	16:15	14.0	1.11	1	5.0																DH59
MAY 31	16:15	18.0	1.12	1	5.0																DH59
JUN 01	16:43	15.0	2.54	5	5.0																DH59
JUN 02	16:27	18.0	2.92	4	5.0																DH59
JUN 03	15:38	12.0	2.26	2	5.0																DH59
JUN 04	16:23	12.0	1.85	2	5.0																DH59
JUN 05	15:19	14.0	1.24	2	5.0																DH59
JUN 06	16:14	21.0	1.06	2	5.0																DH59
JUN 07	17:38	15.0	0.926	2	5.0																DH59
JUN 08	16:38	16.0	0.882	1	5.0																DH59
JUN 09	12:08	25.0	0.838	2	5.0																DH59
JUN 10	16:11	21.0	0.674	2	5.0																DH59
JUN 11	16:27	25.0	0.605	1	5.0																DH59
JUN 12	16:42	21.0	0.547	1	5.0																DH59
JUN 13	16:20	27.0	0.491	1	5.0																DH59
JUN 14	16:27	20.0	0.474	1	5.0																DH59
JUN 15	16:31	14.0	0.530	1	5.0																DH59
JUN 16	17:06	20.0	0.519	1	5.0																DH59
JUN 17	17:27	25.0	0.388	1	5.0																DH59
JUN 18	19:04	23.0	0.347	1	5.0																DH59
JUN 19	16:31	16.0	0.337	1	5.0																DH59
JUN 20	17:06	23.0	1.14	4	5.0																DH59
JUN 21	16:14	21.0	0.630	1	5.0																DH59
JUL 27	11:10	20.0	0.096	2	5.0																DH59
AUG 17	09:18	21.0	0.636	4	5.0																DH59
SEP 18	17:07	14.0	0.911	1	5.0																DH59
OCT 08	09:55	8.0	0.496	1	5.0																DH59
OCT 16	16:15	12.0	0.394	1	5.0																DH59
OCT 16	16:15	8.0	0.367	1	5.0																DH59
OCT 17	16:05	9.0	0.328	1	5.0																DH59
OCT 18	16:15	13.0	0.324	1	5.0																DH59
OCT 19	16:35	12.0	0.320	1	5.0																DH59
OCT 20	17:15	7.0	0.311	1	5.0																DH59
OCT 21	16:50	5.0	0.302	1	5.0																DH59
OCT 22	16:35	9.0	0.296	1	5.0																DH59
OCT 23	16:10	8.0	0.502	1	5.0																DH59
OCT 24	16:10	10.0	0.486	1	5.0																DH59
OCT 25	16:15	6.0	0.425	1	5.0																DH59
OCT 26	16:10	5.0	0.380	1	5.0																DH59
OCT 27	16:15	5.0	0.324	1	5.0																DH59
OCT 28	16:40	6.0	0.378	2	5.0																DH59
OCT 29	16:00	4.0	0.593	1	5.0																DH59
OCT 30	17:15	7.0	0.581	1	5.0																DH59
OCT 31	17:00	5.0	0.510	1	5.0																DH59
NOV 01	17:10	5.0	0.435	1	5.0																DH59
NOV 02	16:55	4.0	0.946	1	5.0																DH59
NOV 03	17:04	4.0	0.747	1	5.0																DH59
NOV 04	17:05	5.0	0.826	1	5.0																DH59
NOV 05	17:15	3.0	0.883	1	5.0																DH59
NOV 06	17:00	3.0	0.720	1	5.0																DH59
NOV 07	17:00	2.0	0.727	1	5.0																DH59
NOV 08	17:00	7.0	0.587	1	5.0																DH59
NOV 09	16:50	5.0	0.530	1	5.0																DH59
NOV 10	16:40	5.0	0.508	1	5.0																DH59
NOV 11	16:20	5.0	0.519	1	5.0																DH59
NOV 12	17:05	4.0	0.474	1	5.0																DH59
NOV 13	16:45	2.0	0.452	1	5.0																DH59
NOV 14	15:40	2.0	1.87	5	5.0																DH59

NOTE : SINGLE VERTICAL LOCATED AT 5.0 METRES

CONTINUED

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE VERTICAL SAMPLING (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
NOV 15	17:00	3.0	1.42		1	5.0																DH59
NOV 16	16:50	2.0	1.70		2	5.0																DH59
NOV 17	16:00	3.0	1.47		1	5.0																DH59
NOV 18	16:00	5.0	1.11		1	5.0																DH59
NOV 19	17:00	2.0	0.919		1	5.0																DH59
NOV 20	17:00	2.0	0.785		1	5.0																DH59
NOV 21	17:00	3.0	0.831		2	5.0																DH59
NOV 22	17:00	5.0	0.706		1	5.0																DH59
NOV 23	17:00	5.0	0.681		1	5.0																DH59
NOV 24	16:55	4.0	0.713		1	5.0																DH59
NOV 25	16:00	3.0	0.681		1	5.0																DH59
NOV 26	17:00	1.0	0.655		1	5.0																DH59
NOV 27	17:00	3.0	0.605		1	5.0																DH59
NOV 28	17:00	5.0	0.583		1	5.0																DH59
NOV 29	17:00	1.0	0.561		1	5.0																DH59
NOV 30	17:00	2.0	0.705		1	5.0																DH59
DEC 01	17:00	1.0	0.636		1	5.0																DH59
DEC 02	17:00	1.0	0.843		3	5.0																DH59
DEC 03	17:00	1.0	0.882		1	5.0																DH59
DEC 04	17:00	3.0	1.30		3	5.0																DH59
DEC 05	17:00	1.0	0.911		2	5.0																DH59
DEC 06	17:00	1.0	1.12		10	5.0																DH59
DEC 07	17:00	2.0	2.28		4	5.0																DH59
DEC 08	16:30	1.0	1.36	W	2	5.0																DH59
DEC 09	17:00	1.0	1.17	W	2	5.0																DH59
DEC 10	17:00	2.0	1.02	W	52	5.0																DH59
DEC 11	17:05	1.5	5.82		6	5.0																DH59
DEC 12	17:00	1.0	3.65		4	5.0																DH59

NOTE : SINGLE VERTICAL LOCATED AT 5.0 METRES

DISCHARGE SYMBOL(S): W - DAILY MEAN; ICE CONDITIONS

MIDDLE RIVER AT ROCKLIN - STATION NO. 01DP004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1969	AUG-DEC	M-S	72	DEC 23	5	SEP 18	188	NOV 08	778	---	---	---
1970	JAN-DEC	M-C	58	OCT 17	0	SEP 18 *	112	JUL 12	785	2.18	2.18	---
1971	JAN-DEC	M-C	81	MAR 18	0	SEP 24	313	AUG 18	1 430	3.81	3.05	28.4
1972	JAN-DEC	M-C	191	MAY 04 *	0	JAN 11	413	MAY 04 *	1 810 *	4.96	3.86	22.0
1973	JAN-DEC	M-C	49	NOV 28	1	SEP 24	28.5	NOV 28	894	1.80	3.24	22.4
1974	JAN-DEC	M-C	35	SEP 30	1	NOV 12	145	FEB 23	1 800	4.39	3.47	17.5
1975	JAN-DEC	M-C	11	JAN 06	1	SEP 15	85.9	MAR 21	939	2.58	3.32	15.6
1976	JAN-DEC	M-C	30	FEB 23	1	SEP 07	77.3	NOV 06	873	2.39	3.19	14.3
1977	JAN-DEC	M-C	8	MAY 02	3	JUN 13	48.6	DEC 28	477	1.31	2.85	15.6
1978	JAN-DEC	M-C	11	OCT 16	2	MAY 06	48.7	JAN 15	315	0.87	2.72	17.2
1979	JAN-DEC	M-C	41	DEC 17	1	APR 16	184	NOV 14	1 480	3.97	2.85	15.3
1980	JAN-DEC	M-C	30	JAN 12	1	JAN 19	151	NOV 13	988	2.70	2.83	14.0
1981	MAY-DEC	M-S	14	MAY 25	1	JUL 20	55.0	NOV 21	486	---	---	---
1982	MAY-DEC	M-S	10	JUN 15	1	JUL 12	34.8	DEC 17	182	---	---	---
1983	MAY-DEC	M-S	12	AUG 08	1	JUN 13	48.3	AUG 07	333	---	---	---
1984	FEB-DEC	M-C	153	APR 17	1	APR 30	250	APR 17	886	1.88	2.78	13.4

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

NOVA SCOTIA

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DC018

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 45 15 54 N LONG 62 58 29 W
DRAINAGE AREA: 73.3 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 574.15 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	2.82 B	2 S	0.49	4.80 B	2	0.83	2.12	2	0.37	1
2	2.15 B	1	0.19	3.70 B	2	0.64	1.57	2	0.27	2
3	1.59 B	1	0.14	3.00 B	2	0.52	1.50 B	2	0.26	3
4	1.38 B	1	0.12	3.90 B	6	2.02	1.32 B	2	0.23	4
5	1.45	1	0.13	10.5 B	32 S	29.0	1.20 B	2	0.21	5
6	3.42	5 S	1.48	10.2 B	17 S	15.0	1.03 B	2 S	0.18	6
7	6.98	2	1.21	8.00 B	5	3.46	0.920 B	1 S	0.08	7
8	5.14	2	0.88	5.60 B	1	0.48	0.840 B	1	0.07	8
9	3.61	2	0.62	4.20 B	1	0.36	0.780 B	2	0.13	9
10	3.48 B	6	1.07	3.20 B	1	0.28	0.895 B	2	0.12	10
11	14.5	18	22.7	3.00 B	1	0.28	0.835 B	2	0.11	11
12	5.26 B	4	1.82	3.40 B	17	4.89	0.590 B	1	0.05	12
13	3.33 B	1	0.29	3.10 B	19	5.08	0.560 B	1	0.05	13
14	2.10 B	1	0.18	2.85 B	11	2.74	0.525 B	1	0.05	14
15	1.33 B	1	0.11	2.70 B	16 S	3.73	11.3 B	35 S	34.2	15
16	1.11 B	1	0.10	3.48 B	18 S	5.43	23.7 B	63 S	129	16
17	1.00 B	1	0.09	3.55	3	0.92	18.4	24	34.0	17
18	0.900 B	1	0.08	2.33	2	0.40	8.77	8	4.55	18
19	0.800 B	1	0.07	1.81	2	0.28	4.78	2	0.82	19
20	0.780 B	1	0.08	1.32	1	0.11	4.78	2	0.83	20
21	0.720 B	1	0.06	1.28	1	0.11	3.68	2	0.62	21
22	0.680 B	1	0.06	0.854	1	0.07	3.39	5 S	1.45	22
23	0.660 B	1	0.05	0.838	1	0.07	3.84	3	1.00	23
24	0.850 B	1	0.08	0.843	4	0.29	3.74	2	0.85	24
25	8.00 B	40 S	27.8	4.30	11 S	4.09	2.84	1	0.22	25
26	8.20 B	15	11.5	2.15	2	0.37	1.89	1	0.17	26
27	5.00 B	2	1.04	1.51	1	0.13	1.62	1	0.14	27
28	4.00 B	2	0.89	1.18	1	0.10	1.34	1	0.12	28
29	2.80 B	2	0.45	1.48	3 S	0.38	1.28	1	0.11	29
30	2.10 B	2	0.35				1.33	1	0.11	30
31	3.80 B	2	0.80				1.33	1	0.11	31
TOTAL	89.740		74.34	88.815		82.15	109.925		210.29	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.20	1	0.10	1.82	1 S	0.14	1.88	2	0.37	1
2	1.31	1	0.11	1.80	1	0.14	2.03	2 S	0.35	2
3	1.34	1	0.12	1.48	1	0.13	1.67	1	0.14	3
4	1.62	1	0.14	2.30	1	0.20	1.29	1	0.11	4
5	1.82	3 S	0.42	3.45	4 S	1.19	0.920	1	0.08	5
6	8.80	29	17.3	2.34	1	0.20	0.808	1	0.07	6
7	13.3	21	24.1	1.80	1	0.16	0.878	1	0.08	7
8	5.23	2	1.08	3.16	1	0.27	0.728	1	0.08	8
9	3.88	1	0.32	2.82	2 S	0.50	0.835	1	0.05	9
10	3.00	2	0.52	2.01	1	0.17	0.473	1	0.04	10
11	5.08	4 S	1.76	1.81	1	0.14	0.403	1	0.03	11
12	5.82	1	0.51	1.73	1	0.15	0.379	1	0.03	12
13	6.83	1	0.58	2.81	2 S	0.49	0.368	1	0.03	13
14	5.51	1	0.48	13.7	11 S	13.0	0.288	1	0.02	14
15	4.57	1	0.39	9.11	8	7.06	0.288	1 S	0.03	15
16	4.89	1	0.41	5.17	1	0.45	0.271	1	0.02	16
17	16.5	47 S	67.0	3.10	1	0.27	0.234	1	0.02	17
18	11.8	13	13.4	3.15	2 S	0.54	0.208	1	0.02	18
19	6.35	3 S	1.85	4.21	1	0.36	0.201	1	0.02	19
20	4.24	1	0.37	3.15	1	0.27	1.41	2 S	0.24	20
21	3.31	1	0.28	2.10	1	0.18	0.710	1	0.08	21
22	2.78	1	0.24	1.62	1	0.14	0.644	3 S	0.22	22
23	2.35	1	0.19	1.49	1	0.13	2.32	10 S	2.00	23
24	2.32	1	0.20	1.35	1	0.12	3.28	2	0.57	24
25	4.17	5 S	1.80	1.38	1	0.12	1.48	1	0.13	25
26	5.09	2	0.88	1.23	1	0.11	1.81	8	0.84	26
27	3.31	1	0.28	1.05	1	0.09	3.24	5 S	1.40	27
28	2.54	1	0.22	0.988	1	0.08	1.78	2	0.31	28
29	2.27	1	0.20	0.813	1	0.07	1.21	2	0.21	29
30	1.72	1	0.15	0.718	1	0.06	0.831	2	0.18	30
31				0.707	1	0.06				31
TOTAL	141.24		135.20	83.830		37.01	32.331		7.98	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PEMBROKE RIVER AT GLENSERVIE - STATION NO. 01DE018

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.701	2	0.12	0.101	1	0.01	0.548	1	0.05	1
2	0.551	2	0.10	0.088	1	0.01	0.472	1 S	0.04	2
3	0.401	2	0.07	0.073	1	0.01	0.687	1 S	0.08	3
4	0.348	2	0.06	0.058	1	0	0.884	1	0.08	4
5	0.328	2	0.06	0.039	1 S	0	0.501	1	0.04	5
6	0.278	3	0.07	0.038	1	0	0.514	1	0.04	6
7	0.242	8 S	0.17	0.037	1	0	0.514	1	0.04	7
8	0.257	4	0.08	0.028	1	0	0.398	1	0.03	8
9	0.788	3 S	0.20	0.033	1	0	0.310	1	0.03	9
10	0.508	2	0.09	0.023	1	0	0.288	1 S	0.02	10
11	0.387	2	0.07	0.018	1	0	0.217	1	0.02	11
12	0.287	3	0.07	0.078	3	0.02	0.841	3 S	0.24	12
13	0.308	3 S	0.08	0.101	7	0.05	0.788	1	0.07	13
14	0.247	1	0.02	0.084	13	0.09	0.870	2	0.15	14
15	0.204	1	0.02	0.095	8	0.07	1.10	1 S	0.10	15
16	0.188	1	0.02	0.435	3 S	0.11	2.17	2	0.37	16
17	0.184	1	0.02	0.448	2	0.08	1.48	1	0.13	17
18	0.168	1	0.01	0.350	2	0.05	0.973	1	0.08	18
19	0.120	1	0.01	0.251	3	0.04	0.857	1	0.08	19
20	0.141	1	0.01	0.275	1	0.02	0.548	1	0.05	20
21	0.098	1 S	0.01	0.938	2	0.18	0.500	1 S	0.04	21
22	0.109	1	0.01	0.498	2 S	0.09	0.444	1	0.04	22
23	0.114	1	0.01	0.348	2	0.06	0.381	1	0.03	23
24	0.120	1	0.01	7.24	8	5.00	0.328	1	0.03	24
25	0.132	1	0.01	8.10	7 S	5.50	0.330	1 S	0.03	25
26	0.085	1	0.01	3.28	2	0.58	0.287	1	0.03	26
27	0.085	1	0.01	1.79	3	0.31	0.632	1	0.05	27
28	0.359	2 S	0.08	1.24	2	0.21	0.402	1	0.03	28
29	0.444	1	0.04	0.895	2	0.15	0.272	1	0.02	29
30	0.238	1	0.02	0.683	2	0.12	0.260	1	0.02	30
31	0.183	1	0.01	0.806	2	0.10				31
TOTAL	8.575		1.58	29.238		12.84	18.388		2.90	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.188	1	0.02	0.333	2	0.06	0.888	2	0.13	1
2	0.180	1	0.02	0.356	2	0.06	0.831	2 S	0.15	2
3	0.715	2 S	0.12	0.877	2	0.13	0.821	2 S	0.18	3
4	0.628	2	0.11	0.603	1	0.06	1.05	2	0.18	4
5	0.707	6 S	0.31	0.447	1	0.04	0.888	1	0.09	5
6	0.578	4	0.20	0.841	1	0.05	0.777	1	0.07	6
7	0.444	3	0.12	0.885	2	0.11	2.18	6 S	0.84	7
8	0.383	2	0.07	0.511	1 S	0.04	1.67	1 S	0.14	8
9	0.430	4	0.15	0.448	3 S	0.08	1.31	1	0.11	9
10	0.378	5	0.16	0.391	2	0.07	1.18	1	0.10	10
11	0.358	4	0.12	0.380	2	0.08	3.88	10 S	3.34	11
12	0.324	4	0.12	0.433	1	0.04	5.48	4 S	1.89	12
13	0.314	4 S	0.11	0.437	1	0.04	3.36	1	0.29	13
14	0.287	4	0.10	1.08	3 S	0.28	2.41	1	0.21	14
15	0.268	4	0.08	1.37	2 S	0.24	1.81	1	0.16	15
16	0.286	4	0.09	1.15	2 S	0.20	1.58	1	0.15	16
17	0.269	4	0.09	1.48	2	0.26	1.53	1	0.13	17
18	0.268	5 S	0.12	1.21	2 S	0.21	1.32	1 S	0.11	18
19	0.288	4	0.10	1.02	1	0.09	1.18	1 S	0.10	19
20	0.267	4	0.09	0.788	1	0.07	1.04	1 S	0.09	20
21	0.228	3	0.08	0.743	1 S	0.08	1.12	1	0.10	21
22	0.243	3 S	0.08	0.717	1	0.08	1.44	1	0.12	22
23	0.268	2	0.08	0.801	1	0.08	1.83	1	0.14	23
24	0.375	1	0.03	0.882	1	0.08	1.37	1	0.12	24
25	0.320	1	0.03	0.838	1	0.08	5.87	9 S	4.85	25
26	0.280	1	0.02	0.580	3	0.15	3.32 B	1	0.29	26
27	0.264	1	0.02	0.695	4	0.19	2.65 B	1	0.21	27
28	0.282	1 S	0.03	0.614	4 S	0.18	2.23 B	1 S	0.18	28
29	0.442	2 S	0.08	0.575	4	0.20	1.84 B	1	0.17	29
30	0.566	4 S	0.20	0.884	3	0.17	1.61 B	1	0.15	30
31	0.484	3	0.10				1.70 B	1	0.15	31
TOTAL	11.181		2.89	20.481		3.33	80.193		16.75	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NOVA SCOTIA

PEMBROKE RIVER AT GLENDERVIE - STATION NO. 01DC018

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m^3/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 01	13:41	0.0	2.82	W	2	6.7																D49
JAN 06	10:18	0.0	3.42	H	1	6.7																D49
JAN 06	17:06		3.42	H	8	6.7												35				D49
JAN 25	14:00		6.00	W	80	6.7																D49
FEB 05	11:00		10.5	W	34	6.7																D49
FEB 06	11:30		10.3	W	17	6.7												24				D49
FEB 15	16:35	0.5	2.70	W	16	6.7																D49
FEB 16	10:30		3.49	W	24	6.7																D49
FEB 25	11:00	1.0	4.28		8	6.7																D49
FEB 29	10:30		0.853		2	6.7																D49
MAR 06	17:20	0.5	1.03	W	3	6.7																D49
MAR 07	10:30	0.2	0.820	W	1	6.7																D49
MAR 15	16:30		11.3	W	53	6.7																D49
MAR 16	11:40	1.0	23.7	W	55	6.7																D49
MAR 22	16:20	3.0	4.26		10	6.7																D49
APR 05	16:00	5.0	1.53		5	6.7																D49
APR 11	16:15	2.0	5.05		10	6.7												37				D49
APR 17	16:00		28.8		107	6.7																D49
APR 18	10:40	2.5	6.39		3	6.7																D49
APR 26	16:45	1.0	4.81		7	6.7												29				D49
MAY 01	16:43	7.0	1.81		1	6.7																D49
MAY 05	13:30	3.0	4.00		2	6.7												36				D49
MAY 09	15:00	5.0	4.38		3	6.7																D49
MAY 13	15:00	9.0	2.88		3	6.7																D49
MAY 14	15:00	9.0	2.88		3	6.7																D49
MAY 18	12:20	6.0	2.90		1	6.7												37				D49
JUN 02	09:00	2.0	2.15		3	6.7																D49
JUN 15	09:00	15.0	0.273		1	6.7																D49
JUN 20	08:00	18.0	1.61		2	6.7												88				D49
JUN 22	10:30	17.0	0.853		5	6.7																D49
JUN 23	16:30	11.0	1.61		20	6.7																D49
JUN 27	13:00	13.0	2.89		3	6.7																D49
JUL 07	17:30	16.0	0.273		10	6.7																D49
JUL 09	08:30	16.0	0.946		3	6.7												88				D49
JUL 13	08:30	17.0	0.328		5	6.7																D49
JUL 21	14:30	23.0	0.114		1	6.7																D49
JUL 26	11:30	17.0	0.136		1	6.7																D49
AUG 05	19:30	23.0	0.073		1	6.7																D49
AUG 16	09:00	20.0	0.843		3	6.7																D49
AUG 22	14:30	21.0	0.446		2	6.7												83				D49
AUG 26	10:05	11.0	9.14		8	6.7																D49
SEP 02	09:20	18.0	0.416		1	6.7																D49
SEP 03	09:50	15.0	0.888		1	6.7																D49
SEP 10	17:20	16.0	0.255		1	6.7																D49
SEP 12	09:30	17.0	1.05		6	6.7																D49
SEP 15	16:15	16.0	0.849		1	6.7																D49
SEP 21	10:00	12.5	0.524		1	6.7																D49
SEP 25	15:45	15.0	0.298		1	6.7																D49
OCT 03	15:00	11.0	0.846		3	6.7												108				D49
OCT 05	15:00	8.0	0.741		5	6.7																D49
OCT 13	16:45	10.0	0.298		4	6.7																D49
OCT 16	13:10	9.0	0.248		5	6.7																D49
OCT 22	15:00	12.0	0.248		3	6.7																D49
OCT 26	10:20	7.0	0.242		1	6.7												108				D49
OCT 29	15:00	9.0	0.459		1	6.7																D49
OCT 30	16:20	8.0	0.543		4	6.7																D49
NOV 05	14:00	4.0	0.606		1	6.7																D49
NOV 06	15:00	3.0	0.421		2	6.7																D49
NOV 14	15:50	3.0	1.40		4	6.7												100				D49
NOV 15	15:10	0.0	1.38		1	6.7																D49
NOV 16	16:05	5.0	1.37		3	6.7																D49
NOV 18	11:20	3.0	1.27		2	6.7																D49
NOV 21	15:50	1.0	0.816		1	6.7																D49
NOV 28	15:50	2.0	0.518		4	6.7																D49
DEC 03	11:10	3.5	0.870		2	6.7																D49
DEC 03	16:10	3.0	0.638		2	6.7																D49
DEC 07	07:20	1.5	2.15		8	6.7																D49
DEC 08	10:30	0.0	1.16		1	6.7																D49
DEC 11	09:00	2.0	1.57		2	6.7																D49
DEC 12	16:05	3.5	4.72		1	6.7																D49
DEC 18	12:00	1.5	1.33		1	6.7												48				D49
DEC 20	15:00	1.5	1.16		1	6.7																D49
DEC 25	11:47	2.0	9.28		17	6.7																D49
DEC 28	15:50	0.0	2.23	W	1	6.7																D49
																						D49

NOTE : SINGLE VERTICAL LOCATED AT 6.7 METRES

DISCHARGE SYMBOL(S): H - DAILY MEAN W - DAILY MEAN; ICE CONDITIONS

PEMBROKE RIVER AT GLENBERVIE - STATION NO. 01DG016

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1978	JAN-DEC	M-C	10	OCT 16	1	FEB 20 *	36.8	JAN 15	192	0.53	0.53	---
1979	JAN-DEC	M-C	88	DEC 17	1	FEB 16	97.5	DEC 17	817 *	1.89	1.11	52.2
1980	JAN-DEC	M-C	51	APR 05	1	JAN 19	88.1	APR 05	483	1.27	1.15	28.2
1981	JAN-DEC	M-C	59	NOV 21	1	JAN 11	111	NOV 21	534	1.47	1.24	20.3
1982	JAN-DEC	M-C	48	APR 29	1	JAN 01	118	APR 29	351	0.98	1.18	17.3
1983	JAN-DEC	M-C	31	MAR 22	1	JAN 23	62.9	MAR 22	408	1.11	1.17	14.2
1984	JAN-DEC	M-C	107	APR 17 *	1	JAN 06	129	MAR 16 *	573	1.57	1.23	12.3

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

SALMON RIVER AT MURRAY - STATION NO. 01DH002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1987	DEC-DEC	M-S	34	DEC 13	4	DEC 17	124	DEC 30	689	---	---	---
1988	JAN-DEC	M-C	113	JAN 17	0	JUN 26 *	405	MAR 14	7 780	21.3	21.3	---
1989	JAN-DEC	M-C	108	MAR 22	1	JUN 21	991	MAR 26	7 690	21.1	21.2	0.5
1970	JAN-DEC	M-C	39	JUL 12	1	JAN 03	292	JUL 12	2 630	7.21	18.5	28.3
1971	JAN-DEC	M-C	141	FEB 14	0	SEP 25	2 120	FEB 14	7 780	21.3	17.7	19.6
1972	JAN-DEC	M-C	241	MAY 04 *	0	MAY 28	2 140	MAY 04 *	10 800 *	28.9	20.0	17.6

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

SALMON RIVER AT SALMON RIVER BRIDGE - STATION NO. 01FJ001

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : APR-SEP MEAN LOAD (TONNES)	SUMMARY : APR-SEP HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-SEP HISTORICAL STANDARD ERROR OF MEAN %
1976	JUN-NOV #	M-MS	5	JUN 23	3	JUN 15 *	---		---	---	---	---
1977	APR-SEP	M-S	24	JUN 05 *	3	APR 15	734	JUN 05 *	2 570 *	14.1	14.1	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE

* - EXTREME FOR PERIOD OF RECORD

NOVA SCOTIA

SHARPE BROOK AT LLOYDS - STATION NO. 01DD004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC STANDARD ERROR OF MEAN %
1968	JUN-DEC	M-S	18	AUG 02	0	AUG 18 *	3.03	NOV 29	18.1		---	---	---
1969	JAN-DEC	M-C	220	SEP 08	1	MAR 31	7.77	DEC 23	35.0		0.10	0.10	---
1970	JAN-DEC	M-C	137	MAY 13	0	JUL 28	4.36	MAY 13	34.8		0.10	0.10	0.0
1971	JAN-DEC	M-C	44	AUG 18	0	MAR 31	18.2	AUG 18	55.1		0.15	0.12	14.0
1972	JAN-DEC	M-C	78	MAY 04	1	MAR 05	21.4	MAY 04 *	102	*	0.28	0.15	28.6
1973	JAN-DEC	M-C	250	MAR 08 *	0	MAR 15	8.24	MAR 08	42.0		0.12	0.15	22.8
1974	JAN-DEC	M-C	44	MAR 17	1	JAN 01	3.67	MAR 17	35.7		0.10	0.14	20.8

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

SHARPE BROOK AT LLOYDS - STATION NO. 01DD004

MONTHLY AND ANNUAL TOTAL VOLUMETRIC BED LOAD IN CUBIC METRES

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	YEAR
1969	0	0	0	3.1	0	0	0	0	0	0	0	3.7	6.8	1969
1970	0	1.8	0	0	0	0	0	0	0	0	0	0	1.8	1970
1971	0	1.8	0	0	0	0	0	4.7	0	0	0.5	0	7.2	1971
1972	0	0	2.1	1.2	---	0	0	0	0	0	1.8	0	---	1972
1973	0	0	2.8	0	0	0.8	0	0	0	0	0	0	3.4	1973
MEAN	0	0.7	1.0	0.7	0	0.1	0	0.8	0	0	0.5	0.7	4.8	MEAN

BED LOAD MEASURED BY VOLUMETRIC METHOD. MONTHLY DISTRIBUTION ESTIMATED.

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 46 12 07 N LONG 62 39 23 W
DRAINAGE AREA: 33.1 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 507.27 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.781	3	0.20	0.762	5	0.32	1.43	8	0.99	1
2	0.762	3	0.19	0.709	3	0.18	1.27	3 S	0.33	2
3	0.747	2 S	0.13	0.691	9 S	0.54	1.15	3	0.30	3
4	0.755	2	0.13	1.04	112	10.1	1.13	3	0.29	4
5	0.838	6 S	0.43	4.85	252 S	106	1.08	3	0.28	5
6	1.15	6 S	0.79	2.70	80 S	18.7	1.11	3 S	0.29	6
7	1.07	5 S	0.48	1.85	8	0.88	1.11	3	0.29	7
8	0.923	5 S	0.40	1.43	5	0.62	1.07	4	0.37	8
9	0.853	4	0.29	1.35	5 S	0.58	1.00	3 S	0.26	9
10	0.848	11 S	0.81	1.30	4	0.45	0.983	2	0.17	10
11	1.12	7	0.68	1.28	4	0.44	0.905	3	0.23	11
12	0.912	7	0.55	1.31	5	0.57	0.888	3	0.23	12
13	0.838	6 S	0.43	1.30	3	0.34	0.834	3 S	0.22	13
14	0.781	4	0.27	1.24	2 S	0.21	0.805	2	0.14	14
15	0.765	3	0.20	1.53	27	3.57	1.24	25 S	2.78	15
16	0.761	2	0.13	2.03	19	3.33	4.21	77 S	28.0	16
17	0.766	3 S	0.20	1.38	6 S	0.72	2.84	47 S	10.3	17
18	0.757	3	0.20	1.29	5	0.58	1.52	24 S	3.15	18
19	0.766	3	0.20	1.34	3	0.32	1.29	18 S	1.78	19
20	0.761	3 S	0.20	1.35	4	0.43	1.88	28 S	3.75	20
21	0.726	4	0.25	1.28	3 S	0.33	1.40	3 S	0.97	21
22	0.709	5	0.31	1.18	3	0.31	1.46	14	1.79	22
23	0.695	4	0.24	1.15	3	0.30	1.52	10	1.31	23
24	0.682	4 S	0.24	1.27	16 S	1.78	1.41	8	0.97	24
25	0.861	39	3.34	2.48	98 S	21.0	1.27	8	0.88	25
26	1.21	13 S	1.38	1.43	86 S	10.4	1.24	8	0.84	26
27	0.819	3	0.21	1.28	8	0.88	1.23	8	0.84	27
28	0.771	3	0.20	1.19	7 S	0.72	1.16	8	0.81	28
29	0.719	4	0.25	1.33	16	2.07	1.15	8 S	0.79	29
30	0.714	5	0.31				1.16	5	0.51	30
31	0.726	8 S	0.38				1.14	8	0.59	31
TOTAL	25.874		13.88	42.903		188.71	41.286		83.84	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	1.12	8	0.88	1.71	4	0.59	1.18	4 S	0.60	1
2	1.13	8	0.78	1.68	3	0.43	1.15	4	0.60	2
3	1.18	8 S	0.83	1.59	3	0.41	1.09	3	0.28	3
4	1.15	5	0.89	1.53	4 S	0.53	1.05	2	0.18	4
5	1.08	5	0.47	1.84	19	3.02	1.02	1 S	0.09	5
6	1.27	35 S	3.84	1.88	5	0.72	0.983	1	0.08	6
7	1.51	17	2.22	1.57	4	0.54	0.977	2	0.17	7
8	1.28	4	0.87	1.46	5 S	0.83	0.948	8 S	0.48	8
9	1.13	7	0.88	1.50	16	2.21	0.925	5	0.40	9
10	1.31	28	2.83	1.47	7	0.88	0.874	3	0.23	10
11	1.85	40	5.70	1.33	6 S	0.69	0.883	3	0.22	11
12	2.15	40	7.48	1.29	6	0.56	0.851	5 S	0.37	12
13	2.71	47 S	11.0	1.37	8	1.07	0.879 A	4 S	0.30	13
14	2.09	17 S	3.07	1.50	45	5.83	0.851 E	5	0.37	14
15	1.85	16	2.37	2.01	70 S	12.2	0.898 A	5 S	0.45	15
16	1.85	8	1.38	1.38	5	0.59	0.821	8	0.43	16
17	3.10	104 S	27.9	1.28	5	0.54	0.771	4	0.27	17
18	2.62	89 S	20.6	1.38	33 S	3.82	0.785	5	0.33	18
19	2.07	37 S	9.02	2.06	57 S	10.3	0.801	9 S	0.62	19
20	1.87	11	1.87	1.83	10 S	1.32	0.948	10	0.82	20
21	1.85	4 S	0.67	1.35	7	0.82	0.818	10	0.71	21
22	1.87	3	0.48	1.28	5	0.55	0.811	5 S	0.42	22
23	1.78	3	0.45	1.28	4 S	0.44	0.880	8	0.61	23
24	1.76	12 S	1.80	1.28	4	0.44	0.828	4	0.28	24
25	2.88	80 S	14.6	1.30	5	0.58	0.743	4	0.26	25
26	2.64	26 S	5.83	1.24	3 S	0.32	0.718	4 S	0.25	26
27	2.08	6	1.08	1.30	3	0.31	0.788	5	0.35	27
28	1.81	3 S	0.47	1.15	3	0.30	0.715	3	0.19	28
29	1.74	4	0.60	1.18	7 S	0.70	0.890	3 S	0.18	29
30	1.71	5	0.74	1.30	8 S	0.87	0.875	3	0.17	30
31				1.19	3	0.31				31
TOTAL	56.43		126.88	48.83		92.31	28.274		10.33	TOTAL

A - MANUAL GAUGE E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.662	3	0.17	0.483	1	0.04	0.484	6	0.26	1
2	0.663	2	0.11	0.483	2	0.08	0.882	13	0.89	2
3	0.624	5 S	0.27	0.476	2 S	0.08	0.787	7	0.48	3
4	0.605	5	0.26	0.459	2	0.08	0.591	7	0.38	4
5	0.604	4	0.21	0.456	2	0.08	0.547	7	0.33	5
6	0.620	6 S	0.32	0.455	2	0.08	0.533	8 S	0.37	6
7	0.573	4	0.20	0.449	2 S	0.08	0.507	7	0.31	7
8	0.578	3	0.15	0.459	3	0.12	0.507	7	0.31	8
9	0.636	6	0.33	0.450	3	0.12	0.505	5	0.22	9
10	0.582	7 S	0.36	0.447	2	0.08	0.488	4	0.17	10
11	0.553	6	0.28	0.467	2 S	0.08	0.479	6	0.25	11
12	0.554	5	0.24	0.632	13 S	0.71	0.851	27 S	1.99	12
13	0.551	4 S	0.19	0.529	6	0.27	0.585	6	0.34	13
14	0.550	4	0.19	1.34	132 S	15.3	0.601	6 S	0.31	14
15	0.550	4	0.19	0.791	14	0.96	0.679	15 S	0.88	15
16	0.537	5	0.23	0.593	5	0.26	1.09	7 S	0.66	16
17	0.573	13 S	0.64	0.604	5	0.28	0.732	4	0.25	17
18	0.541	4	0.19	0.529	4 S	0.18	0.601	4	0.21	18
19	0.553	7	0.36	0.469	4	0.16	0.563	4 S	0.19	19
20	0.525	8 S	0.36	0.496	7	0.30	0.557	4	0.19	20
21	0.518	6	0.27	0.868	10 S	0.84	0.551	2	0.10	21
22	0.528	6	0.27	0.617	5	0.27	0.550	2 S	0.10	22
23	0.524	6	0.27	0.524	4	0.18	0.555	2	0.10	23
24	0.534	8 S	0.28	0.607	6 S	0.31	0.551	2	0.10	24
25	0.528	5	0.23	0.738	7 S	0.45	0.558	1 S	0.05	25
26	0.491	6	0.21	0.575	3	0.15	0.615	4	0.21	26
27	0.518	5	0.22	0.523	3	0.14	0.744	7	0.45	27
28	0.585	7 S	0.34	0.505	4	0.17	0.598	4 S	0.21	28
29	0.544	4	0.19	0.500	4	0.17	0.555	3	0.14	29
30	0.508	2	0.09	0.498	4	0.17	0.542	3	0.14	30
31	0.488	2 S	0.09	0.491	4	0.17				31
TOTAL	17.411		7.71	17.824		23.35	18.504		10.85	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.528	3	0.14	0.486	2	0.08	0.459	1	0.04	1
2	0.533	7 S	0.32	0.483	2 S	0.08	0.449	1	0.04	2
3	0.709	7	0.43	0.490	3	0.13	0.480	2	0.08	3
4	0.728	7	0.44	0.474	3	0.12	0.476	6 S	0.25	4
5	0.718	4	0.25	0.488	3	0.13	0.458	2	0.08	5
6	0.834	3 S	0.11	0.481	2 S	0.08	0.468	2	0.08	6
7	0.891	3	0.10	0.484	3	0.13	0.538	2 S	0.08	7
8	0.880	3	0.10	0.477	2	0.08	0.487	3	0.13	8
9	0.858	2 S	0.10	0.486	1 S	0.04	0.481	2	0.08	9
10	0.830	3	0.09	0.480	1	0.04	0.480	2	0.08	10
11	0.831	3	0.09	0.485	1	0.04	0.881	4 S	0.30	11
12	0.815	3 S	0.09	0.482	2	0.08	0.882	2	0.12	12
13	0.489	2	0.09	0.446	2	0.08	0.579	2	0.10	13
14	0.810	3	0.09	0.850	15 S	1.16	0.822	3 S	0.09	14
15	0.812	3	0.13	0.899	4	0.30	0.498	2	0.09	15
16	0.485	3 S	0.13	0.821	6 S	0.21	0.486	2	0.08	16
17	0.488	2	0.08	0.548	4	0.19	0.497	1	0.04	17
18	0.487	2	0.08	0.512	3	0.13	0.498	1 S	0.04	18
19	0.503	1 S	0.04	0.489	2	0.08	0.498	2	0.09	19
20	0.502	2	0.08	0.486	1 S	0.04	0.487	1	0.04	20
21	0.483	2	0.08	0.458	1	0.04	0.487	2 S	0.08	21
22	0.507	1	0.04	0.479	1	0.04	0.476	2	0.08	22
23	0.543	1 S	0.05	0.485	1 S	0.04	0.501	1	0.04	23
24	0.544	1	0.05	0.478	1	0.04	0.484	2	0.08	24
25	0.498	1	0.04	0.470	1	0.04	0.566	2	0.10	25
26	0.493	2 S	0.09	0.458	1	0.04	0.471	2 S	0.08	26
27	0.489	2	0.08	0.453	1 S	0.04	0.446	5	0.19	27
28	0.513	2	0.09	0.450	2	0.08	0.408	6 S	0.21	28
29	0.540	2 S	0.08	0.425	2	0.07	0.424	5	0.18	29
30	0.520	1	0.04	0.445	2 S	0.08	0.442	4	0.15	30
31	0.490	1	0.04				0.435	3	0.11	31
TOTAL	15.787		3.74	15.068		3.75	15.472		3.24	TOTAL

S - SAMPLE(S) COLLECTED THIS DAY

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 03	13:20	4.0	0.824	2	1ORB																DH48
JAN 05	10:25	4.0	0.885	3	1ORB																DH48
JAN 06	14:50	3.0	1.28	14	1ORB												151				DH48
JAN 07	13:10	3.0	1.17	5	1ORB																DH48
JAN 08	14:00	3.0	1.06	5	1ORB																DH48
JAN 10	09:50	3.0	0.868	2	1ORB																DH48
JAN 13	10:00	1.0	1.05	8	1ORB																DH48
JAN 17	10:15	1.0	0.959	2	1ORB																DH48
JAN 20	13:20	2.0	0.836	3	1ORB												141				DH48
JAN 24	15:27	1.0	0.835	4	1ORB																DH48
JAN 26	09:30	1.0	1.53	12	1ORB																DH48
JAN 31	09:10	1.0	0.851	3	1ORB												136				DH48
FEB 03	15:30	1.0	0.835	14	1ORB																DH48
FEB 05	12:30	1.0	5.44	53	1ORB																DH48
FEB 05	18:50	1.0	4.81	143	1ORB												80				DH48
FEB 06	10:00	1.0	2.47	75	1ORB																DH48
FEB 06	18:45	1.0	2.47	29	1ORB																DH48
FEB 08	11:25	1.0	1.34	5	1ORB																DH48
FEB 14	11:10	1.0	1.20	2	1ORB												120				DH48
FEB 17	10:55	1.0	1.34	6	1ORB																DH48
FEB 21	14:10	1.0	1.29	3	1ORB																DH48
FEB 24	13:10	1.0	1.09	2	1ORB												121				DH48
FEB 25	12:15	2.0	2.30	89	1ORB																DH48
FEB 25	17:00	2.0	1.85	91	1ORB																DH48
FEB 26	09:40	2.0	1.52	117	1ORB												96				DH48
FEB 28	11:55	1.0	1.19	7	1ORB																DH48
MAR 02	09:20	1.0	1.28	3	1ORB																DH48
MAR 06	11:40	1.0	1.12	3	1ORB																DH48
MAR 08	13:37	1.0	1.05	1	1ORB																DH48
MAR 13	14:35	1.0	0.829	3	1ORB																DH48
MAR 15	14:28	2.0	0.954	3	1ORB																DH48
MAR 16	15:28	2.0	5.27	50	1ORB																DH48
MAR 17	15:50	2.0	2.22	45	1ORB																DH48
MAR 18	15:45	2.0	1.38	21	1ORB																DH48
MAR 19	09:30	3.0	1.19	5	1ORB																DH48
MAR 20	14:45	3.0	1.52	17	1ORB																DH48
MAR 21	09:47	4.0	1.32	4	1ORB																DH48
MAR 29	09:50	4.0	1.17	13	1ORB																DH48
APR 03	15:10	5.0	0.848	9	1ORB												114				DH48
APR 06	14:18	5.0	1.30	31	1ORB																DH48
APR 13	09:30	5.0	2.78	20	1ORB																DH48
APR 13	15:20	6.0	2.84	38	1ORB												94				DH48
APR 14	09:00	4.0	1.92	8	1ORB																DH48
APR 14	18:10	5.0	1.95	15	1ORB																DH48
APR 17	14:10	6.0	3.91	74	1ORB												104				DH48
APR 18	13:20	6.0	2.30	87	1ORB																DH48
APR 19	13:25	6.0	2.05	34	1ORB																DH48
APR 21	09:35	6.0	1.95	4	1ORB																DH48
APR 24	13:00	6.0	1.74	52	1ORB												95				DH48
APR 25	11:00	7.0	3.12	80	1ORB																DH48
APR 25	17:00	6.0	3.29	101	1ORB																DH48
APR 26	12:00	6.0	2.49	8	1ORB																DH48
APR 28	15:27	8.0	1.79	4	1ORB																DH48
MAY 04	18:10	9.0	1.50	4	1ORB																DH48
MAY 08	14:40	10.0	1.39	8	1ORB																DH48
MAY 11	12:24	10.0	1.34	8	1ORB																DH48
MAY 15	08:30	8.0	2.04	84	1ORB																DH48
MAY 15	15:00	8.0	1.71	11	1ORB																DH48
MAY 16	13:20	10.0	1.32	49	1ORB																DH48
MAY 19	08:20	8.0	2.45	96	1ORB																DH48
MAY 19	16:50	8.0	2.02	46	1ORB																DH48
MAY 20	15:10	10.0	1.48	10	1ORB																DH48
MAY 23	14:25	11.0	1.29	3	1ORB												107				DH48
MAY 26	13:55	13.0	1.24	3	1ORB																DH48
MAY 29	13:10	12.0	1.17	3	1ORB																DH48
MAY 30	13:45	12.0	1.28	3	1ORB																DH48
JUN 01	12:25	13.0	1.21	3	1ORB																DH48
JUN 05	12:50	13.0	1.04	1	1ORB																DH48
JUN 08	08:30	13.0	0.983	6	1ORB												110				DH48
JUN 12	12:20	13.0	0.896	18	1ORB																DH48
JUN 13	11:30	12.5	0.863	8	1ORB																DH48
JUN 15	08:10	12.0	0.888	6	1ORB																DH48
JUN 19	07:50	14.0	0.787	15	1ORB																DH48
JUN 22	11:20	14.0	0.888	7	1ORB																DH48
JUN 26	13:00	13.0	0.719	4	1ORB																DH48
JUN 29	10:30	13.0	0.760	2	1ORB																DH48
JUL 03	13:12	14.0	0.633	8	1ORB																DH48
JUL 06	14:10	14.0	0.618	7	1ORB																DH48
JUL 10	12:20	15.0	0.565	9	1ORB																DH48
JUL 13	10:50	15.0	0.575	4	1ORB																DH48
JUL 17	08:30	15.0	0.589	23	1ORB																DH48
JUL 20	15:12	18.0	0.477	13	1ORB																DH48
JUL 24	13:55	20.0	0.561	8	1ORB																DH48
JUL 26	13:10	18.0	0.571	10	1ORB																DH48
JUL 31	09:50	20.0	0.488	3	1ORB																DH48
AUG 03	13:30	18.0	0.488	2	1ORB																DH48
AUG 07	12:50	18.0	0.452	2	1ORB																DH48
AUG 11	09:00	20.0	0.452	2	1ORB																DH48
AUG 12	13:35	18.0	0.582	14	1ORB												125				DH48
AUG 14	09:30	18.0	1.59	277	1ORB																DH48
AUG 14	14:25	17.0	1.71	135	1ORB																DH48
AUG 18	10:30	17.0	0.499	4	1ORB																DH48
AUG 21	10:15	16.0	1.00	6	1ORB																DH48
AUG 24	13:12	16.0	0.575	5	1ORB																DH48
AUG 25	07:30	15.0	0.629	8	1ORB																DH48
SEP 06	13:25	13.0	0.530	3	1ORB												117				DH48
SEP 12	12:50	12.0	1.07	17	1ORB																DH48
SEP 14	13:00	13.0	0.598	6	1ORB																DH48
SEP 18	13:50	12.0	0.898	15	1ORB												121				DH48
SEP 19	14:30	12.0	1.17	4	1ORB																DH48
SEP 19	13:48	12.0	0.575	5	1ORB																DH48
SEP 22	10:00	11.0	0.853	2	1ORB																DH48
SEP 26	09:20	10.0	0.530	1	1ORB																DH48

NOTE : SINGLE VERTICAL LOCATED AT 10LB

CONTINUED

PRINCE EDWARD ISLAND

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004 (CONTINUED)

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT CONCENT. (mg/L)	SINGLE VERTICAL SAMPLING (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.063	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
SEP 28	15:10	9.0	0.575	3	10RB																DH48
OCT 02	13:55	9.0	0.517	6	10RB																DH48
OCT 05	10:30	7.0	0.523	1	10RB																DH48
OCT 09	08:10	8.0	0.575	1	10RB																DH48
OCT 12	14:25	7.0	0.508	2	10RB																DH48
OCT 16	15:00	8.0	0.495	3	10RB																DH48
OCT 18	13:20	9.0	0.488	3	10RB																DH48
OCT 23	09:20	7.0	0.510	1	10RB																DH48
OCT 26	10:30	8.0	0.495	1	10RB																DH48
OCT 29	09:50	8.0	0.510	1	10RB																DH48
NOV 02	15:10	7.0	0.472	2	10RB												110				DH48
NOV 05	10:40	8.0	0.482	3	10RB																DH48
NOV 09	11:50	5.0	0.443	1	10RB																DH48
NOV 14	10:35	6.0	0.724	41	10RB																DH48
NOV 14	15:45	6.0	1.06	10	10RB																DH48
NOV 16	15:30	4.0	0.523	5	10RB																DH48
NOV 20	12:00	4.0	0.486	1	10RB																DH48
NOV 23	11:45	3.0	0.486	1	10RB																DH48
NOV 27	15:25	3.0	0.469	1	10RB																DH48
NOV 30	14:10	3.0	0.456	1	10RB																DH48
DEC 04	09:15	3.0	0.512	33	10RB												136				DH48
DEC 07	09:50	3.0	0.575	2	10RB																DH48
DEC 11	10:40	2.0	1.12	2	10RB																DH48
DEC 14	14:20	2.0	0.517	2	10RB																DH48
DEC 18	09:15	2.0	0.488	1	10RB																DH48
DEC 21	09:45	2.0	0.473	1	10RB																DH48
DEC 28	10:50	2.0	0.477	1	10RB																DH48
DEC 28	14:00	3.0	0.403	6	10RB																DH48

NOTE : SINGLE VERTICAL LOCATED AT 10LB

BRUDENELL RIVER AT BRUDENELL - STATION NO. 01CE004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1979	JUL-DEC	M-S	481	DEC 17 *	1	DEC 11 *	120	DEC 17	986 *	---	---	---
1980	JAN-DEC	M-C	333	APR 05	1	FEB 12	180	APR 05 *	583	1.64	1.54	---
1981	JAN-DEC	M-C	336	FEB 03	1	SEP 18	89.5	FEB 12	884	1.62	1.68	8.3
1982	JAN-DEC	M-C	66	APR 29	1	MAY 28	22.6	APR 29	302	0.83	1.40	21.0
1983	JAN-DEC	M-C	93	MAR 21	2	JAN 08	17.7	MAR 21	348	0.86	1.29	16.2
1984	JAN-DEC	M-C	377	AUG 14	1	MAR 09	106	FEB 05	506	1.38	1.31	14.0

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

BRUDENELL RIVER NEAR BRUDENELL - STATION NO. 01CE003

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1966	JUL-DEC	M-S	31	OCT 12	2	SEP 08	2.55	OCT 12	72.8	---	---	---
1967	JAN-DEC	M-C	120	MAY 04	1	JUL 05	50.5	MAY 04	679	1.88	1.88	---
1968	JAN-DEC	M-C	486	MAR 17 *	3	AUG 18	286	MAR 18	1 410 *	3.85	2.85	24.8
1969	JAN-DEC	M-C	379	MAR 30	1	AUG 13	180	MAR 28	812	2.23	2.85	23.1
1970	JAN-DEC	M-C	59	MAR 29	2	JAN 11	36.5	MAR 28	315	0.87	2.20	28.2
1971	JAN-DEC	M-C	58	MAY 24	1	DEC 27	23.5	APR 21	458	1.26	2.01	25.7
1972	JAN-DEC	M-C	671	MAR 18	0	FEB 05 *	311	MAR 18 *	1 270	3.46	2.26	21.5
1973	JAN-DEC	M-C	128	FEB 04	4	FEB 20	27.3	MAR 09	433	1.19	2.11	30.6
1974	JAN-DEC	M-C	112	DEC 03	1	SEP 14	35.4	MAR 05	577	1.58	2.04	18.9
1975	JAN-DEC	M-C	415	APR 20	4	FEB 05	181	APR 20	979	2.69	2.11	19.5
1976	JAN-DEC	M-C	194	MAR 31	0	DEC 14	83.3	JAN 28	735	1.96	2.10	14.8
1977	JAN-DEC	M-C	84	APR 01	1	DEC 13	70.6	APR 01	844	1.49	2.04	14.1
1978	JAN-DEC	M-C	80	JAN 15	1	FEB 25	49.9	JAN 15	284	0.78	1.84	14.8
1979	JAN-JUN	M-S	175	MAR 11	3	MAR 27	63.7	FEB 28	283	---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

DAMES BROOK NEAR NEWTON - STATION NO. 01CB010

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	730 JUL 10	*	1 OCT 03		122	APR 04 *	412	*	1.69	1.69	---
1975	APR-NOV	M-S	312 NOV 14		0 JUL 17	*	82.5	APR 20	222		0.91	1.30	30.0

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

DUNK RIVER ABOVE SCALES POND - STATION NO. 01CB011

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)	SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : MEAN LOAD (TONNES)	SUMMARY : HISTORICAL MEAN LOAD (TONNES)	SUMMARY : HISTORICAL STANDARD ERROR OF MEAN %
1974	APR-NOV #	M-MS	336 JUL 10	*	1 MAY 08	*	---	---	---	---	---

M - MANUAL SAMPLING

MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

DUNK RIVER AT MCKENNA'S BRIDGE - STATION NO. 01CB009

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	473 NOV 26	*	1 JUN 22		96.0 NOV 26	*	493	*	2.02	2.02	---
1975	APR-NOV	M-S	109 NOV 14		0 MAY 30	*	36.8 MAY 06		227		0.93	1.65	35.8

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

DUNK RIVER AT WALL ROAD - STATION NO. 01CB002

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : MAY-NOV MEAN LOAD (TONNES)	SUMMARY : MAY-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : MAY-NOV HISTORICAL STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	1 630 NOV 26	*	1 MAY 08	*	850 NOV 26	*	1 290	*	4.80	4.80	---
1975	MAY-NOV	M-S	393 JUL 03		4 JUN 11		70.3 JUL 03		1 050		4.80	4.88	1.0

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

DUNK RIVER BELOW SCALES POND - STATION NO 01CB013

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	134	APR 05 *	1	JUN 27 *	100	APR 05 *	577	*	2.37	2.37	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

DUNK RIVER NEAR BREADALBANE - STATION NO 01CB008

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	525	NOV 28 *	1	JUN 20 *	118	NOV 28 *	570	*	2.34	2.34	---
1975	MAY-NOV	M-S	93	JUN 08	1	MAY 30	31.7	MAY 09	95.5		---	---	---

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

EAST BRANCH DUNK RIVER AT ELLIOTT - STATION NO. 01CB007

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	145	NOV 28 *	1	MAY 08 *	30.5	APR 05	138	*	0.57	0.57	---
1975	APR-NOV	M-S	94	AUG 14	1	MAY 30	37.4	APR 20 *	86.8		0.36	0.47	22.4

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

ELMO RIVER NEAR SCALES POND - STATION NO. 01CB012

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	SUMMARY : APR-NOV HISTORICAL MEAN LOAD (TONNES)	SUMMARY : APR-NOV STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	847	NOV 28 *	1	OCT 03	24.0	NOV 28 *	81.8	*	0.28	0.28	---
1975	APR-NOV	M-S	257	NOV 14	0	JUN 27 *	8.02	APR 20	37.2		0.16	0.21	23.8

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

EMERALD BROOK NEAR EMERALD - STATION NO. 01CB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)		SAMPLED CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		SUSPENDED SEDIMENT LOAD TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL MEAN LOAD (TONNES)	SUMMARY : JAN-DEC HISTORICAL STANDARD ERROR OF MEAN %
1974	JUL-DEC	B-S	15	SEP 28	1	JUL 26	0.05	NOV 26	0.84	---	---	---
1975	JAN-DEC	B-C	16	MAY 07	0	SEP 03 *	1.84	APR 20	17.2	0.05	0.05	---
1976	JAN-DEC	B-C	111	FEB 02	2	MAR 03	28.2	FEB 22	85.1	0.24	0.15	63.4
1977	JAN-DEC	M-C	137	MAR 31	0	SEP 07	34.6	MAR 31	101	0.28	0.18	37.3
1978	JAN-DEC	M-C	41	MAR 29	1	JUL 31	26.9	JAN 15	76.0	0.19	0.19	28.4
1979	JAN-DEC	M-C	342	APR 10	1	JAN 25	77.9	FEB 27	333	0.92	0.36	44.4
1980	JAN-DEC	M-C	90	APR 05	1	SEP 17	24.7	MAR 13	80.8	0.17	0.31	49.8
1981	JAN-DEC	M-C	1 110	FEB 12 *	1	JUN 03	238	FEB 12 *	458 *	1.25	0.44	39.0

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 46 39 49 N LONG 63 37 58 W
DRAINAGE AREA: 12.9 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 114.63 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

	JAN			FEB			MAR			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.178	7	0.11	0.182	4	0.06	0.481	14	0.58	1
2	0.178	7	0.11	0.178	3	0.05	0.380	13	0.43	2
3	0.185	8	0.09	0.192	4	0.07	0.243	8	0.17	3
4	0.171	5	0.07	0.244	22	0.46	0.242	5	0.10	4
5	0.190	2 S	0.03	1.86	87 S	12.6	0.216	3	0.06	5
6	0.206	2	0.04	0.635	23	1.86	0.218	2 S	0.04	6
7	0.202	3	0.05	0.412	9	0.32	0.207	2	0.04	7
8	0.202	4 S	0.07	0.251	3	0.07	0.188	2	0.03	8
9	0.189	4	0.07	0.231	1	0.02	0.182	2	0.03	9
10	0.181	4	0.07	0.207	1	0.02	0.185	1	0.02	10
11	0.180	4	0.07	0.195	2	0.03	0.181	2 S	0.03	11
12	0.177	3	0.05	0.224	1 S	0.02	0.188	2	0.03	12
13	0.170	3	0.04	0.223	1	0.02	0.181	2	0.03	13
14	0.182	3	0.04	0.226	1 S	0.02	0.198	2	0.03	14
15	0.170	2 S	0.03	0.978	40	3.37	3.25	38	10.7	15
16	0.170	1	0.01	1.75	24	3.71	3.41	14	4.12	16
17	0.187	1	0.01	0.421	3	0.11	2.84	120 S	29.4	17
18	0.188	2	0.03	0.303	2	0.05	0.626	4	0.22	18
19	0.186	2	0.03	0.272	2	0.05	0.430	4	0.15	19
20	0.182	2	0.03	0.258	2 S	0.04	0.448	12	0.46	20
21	0.140 S	4	0.05	0.282	2	0.05	0.809	25	1.74	21
22	0.132 S	17 S	0.19	0.237	2	0.04	1.61	80	7.83	22
23	0.125	4	0.04	0.204	2	0.04	0.847	33	1.84	23
24	0.145	5	0.06	0.492	18	0.81	0.452	12 S	0.47	24
25	0.170	5	0.07	1.49	14	1.80	0.367	10	0.32	25
26	0.188	4	0.07	0.364	4 S	0.13	0.343	9	0.27	26
27	0.187	4	0.06	0.271	4	0.09	0.322	9	0.25	27
28	0.181	4	0.07	0.235	4	0.06	0.322	9	0.25	28
29	0.178	3	0.05	0.247	3	0.06	0.318	9	0.24	29
30	0.181	3 S	0.05				0.308	8	0.21	30
31	0.188	4	0.06				0.298	8	0.18	31
TOTAL	5.411		1.62	13.102		25.85	19.881		80.23	TOTAL

	APR			MAY			JUN			
DAY	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAILY DISCHARGE (m³/s)	MEAN CONCENTRATION (mg/L)	DAILY LOAD (t)	DAY
1	0.308	8 S	0.13	0.447	2	0.08	0.257	4	0.09	1
2	0.340	8	0.18	0.462	2	0.08	0.308	8	0.13	2
3	0.294	8	0.15	0.401	2	0.07	0.295	8	0.13	3
4	0.266	5 S	0.11	0.398	3	0.10	0.268	8	0.13	4
5	0.287	5	0.12	0.413	2	0.07	0.230	8	0.12	5
6	0.337	5	0.17	0.418	2 S	0.07	0.238	7 S	0.14	6
7	0.388	7	0.24	0.414	2	0.07	0.238	8	0.18	7
8	0.332	7 S	0.20	0.408	2	0.07	0.238	8	0.15	8
9	0.271	6	0.14	0.414	3	0.11	0.220	8 S	0.15	9
10	0.261	5	0.14	0.341	2	0.06	0.210	8	0.15	10
11	0.276	5	0.14	0.311	2	0.05	0.204	7	0.12	11
12	0.281	5	0.15	0.294	2	0.05	0.228	8	0.12	12
13	0.315	6	0.18	0.324	3 S	0.08	0.221	5	0.10	13
14	0.345	6	0.18	0.342	8	0.15	0.235	4 S	0.08	14
15	0.488	7	0.30	0.493	13 S	0.51	0.278	4	0.10	15
16	0.674	6	0.35	0.343	5	0.15	0.247	5	0.11	16
17	2.67	15	3.72	0.317	4	0.11	0.218	6 S	0.11	17
18	0.881	30	2.64	0.332	3	0.08	0.243	7	0.15	18
19	0.638	20	1.10	0.376	3	0.10	0.296	8 S	0.23	19
20	0.619	8 S	0.43	0.388	3	0.09	0.278	8	0.21	20
21	0.809	5	0.28	0.364	3 S	0.09	0.230	7	0.14	21
22	0.678	4	0.20	0.333	3	0.09	0.301	6	0.18	22
23	0.574	4 S	0.20	0.348	3	0.09	0.259	6	0.13	23
24	0.526	3 S	0.14	0.351	4	0.12	0.251	5	0.11	24
25	0.515	3	0.15	0.313	4	0.11	0.240	4	0.08	25
26	0.550	4	0.18	0.321	4	0.11	0.237	4	0.08	26
27	0.498	4	0.17	0.308	4 S	0.11	0.234	3 S	0.08	27
28	0.465	2	0.08	0.304	4	0.11	0.237	3	0.08	28
29	0.454	2 S	0.08	0.299	4	0.10	0.241	3	0.08	29
30	0.435	2	0.08	0.289	4	0.10	0.285	3	0.07	30
31				0.281	4	0.09				31
TOTAL	16.888		12.31	10.897		3.27	7.383		3.84	TOTAL

S - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	0.252	3	0.07	0.190	3	0.05	0.187	1	0.02	1
2	0.248	3	0.06	0.195	3	0.05	0.187	3	0.05	2
3	0.243	4	0.06	0.208	3	0.05	0.172	2 S	0.03	3
4	0.243	6 S	0.10	0.198	3	0.05	0.168	2	0.03	4
5	0.248	4	0.09	0.200	4	0.07	0.178	4 S	0.08	5
6	0.283	4	0.10	0.172	4	0.08	0.188	3	0.05	6
7	0.281	4 S	0.10	0.178	4	0.08	0.188	1	0.02	7
8	0.259	3	0.09	0.193	3	0.05	0.205	1 S	0.02	8
9	0.258	3	0.07	0.177	3	0.05	0.216	0	0	9
10	0.243	4	0.08	0.181	3	0.05	0.190	1	0.02	10
11	0.218	4	0.07	0.187	3	0.05	0.178	1 S	0.02	11
12	0.226	5	0.10	0.354	5	0.15	0.204	2 S	0.04	12
13	0.249	4	0.09	0.230	4	0.08	0.188	2	0.03	13
14	0.252	4	0.09	0.488	8	0.34	0.182	2	0.03	14
15	0.244	4	0.08	0.256	3	0.07	0.178	1 S	0.02	15
16	0.233	4	0.08	0.227	3	0.06	0.228	4 S	0.08	16
17	0.221	4	0.08	0.213	3 S	0.06	0.193	2	0.03	17
18	0.215	4	0.07	0.205	3	0.05	0.183	2	0.03	18
19	0.221	4	0.08	0.188	3	0.05	0.183	2	0.03	19
20	0.219	4	0.08	0.178	3	0.05	0.178	2	0.03	20
21	0.224	4 S	0.08	0.184	3 S	0.05	0.180	1 S	0.02	21
22	0.230	4	0.08	0.188	3	0.05	0.187	1	0.02	22
23	0.218	4	0.07	0.188	3	0.05	0.188	2	0.03	23
24	0.209	3	0.05	0.188	4 S	0.07	0.188	2	0.03	24
25	0.209	3	0.05	0.184	4 S	0.06	0.185	2	0.03	25
26	0.209	3	0.05	0.184	3	0.04	0.201	3	0.05	26
27	0.209	3	0.05	0.187	3	0.05	0.214	8 S	0.11	27
28	0.209	3	0.05	0.187	2 S	0.03	0.183	3	0.05	28
29	0.208	3	0.05	0.180	2	0.03	0.188	3	0.05	29
30	0.207	3	0.05	0.181	1	0.02	0.172	2	0.03	30
31	0.187	3	0.05	0.188	1 S	0.02				31
TOTAL	7.295		2.29	5.458		2.00	5.681		1.05	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.178	2	0.03	0.188 E	1	0.01	0.181	1	0.01	1
2	0.163	2	0.02	0.187 E	1	0.01	0.150	1 S	0.01	2
3	0.173	3 S	0.04	0.188 E	4 S	0.05	0.145	1	0.01	3
4	0.170	3 S	0.04	0.188 E	2	0.03	0.144	1	0.01	4
5	0.187	3	0.05	0.183 E	2	0.03	0.139	1	0.01	5
6	0.188	2	0.03	0.181 E	1	0.01	0.142	1	0.01	6
7	0.177	3	0.05	0.180 E	1	0.01	0.148	1	0.01	7
8	0.215	2	0.04	0.168 E	1 S	0.01	0.138	1 S	0.01	8
9	0.178	2	0.03	0.168 A	1	0.01	0.140	1	0.01	9
10	0.184	2	0.03	0.152	1	0.01	0.138	1	0.01	10
11	0.161	1	0.01	0.158	1 S	0.01	0.187	5 S	0.07	11
12	0.188	1 S	0.01	0.158	2	0.03	0.184	2	0.03	12
13	0.188	1	0.01	0.159	2	0.03	0.188	2 S	0.03	13
14	0.181 A	2	0.03	0.160	5 S	0.06	0.188	2	0.03	14
15	0.188 E	1	0.01	0.171	2 S	0.03	0.181	1	0.01	15
16	0.188 E	1	0.01	0.184	2	0.03	0.188	1 S	0.01	16
17	0.188 E	0 S	0	0.184	2	0.03	0.182	1	0.01	17
18	0.185 E	0	0	0.181	2	0.03	0.187	1	0.01	18
19	0.171 E	1	0.01	0.153	2	0.03	0.188	1	0.01	19
20	0.178 E	1	0.02	0.188	2	0.03	0.180	1	0.01	20
21	0.178 E	1	0.02	0.150	1	0.01	0.139	1 S	0.01	21
22	0.171 E	1	0.01	0.180	1 S	0.01	0.144	2	0.02	22
23	0.174 E	1 S	0.02	0.158	1	0.01	0.187	1	0.01	23
24	0.188 E	1	0.01	0.151	2	0.03	0.188	2	0.03	24
25	0.187 E	2	0.03	0.151	2 S	0.03	0.183	4	0.06	25
26	0.183 E	1	0.01	0.152	3	0.04	0.188	5	0.07	26
27	0.184 E	2	0.03	0.148	4	0.05	0.153 B	11 S	0.15	27
28	0.183 E	1	0.01	0.145	5 S	0.06	0.140	7	0.08	28
29	0.188 A	0 S	0	0.150	2	0.03	0.145	4	0.05	29
30	0.188	0	0	0.188	1 S	0.01	0.150	2	0.03	30
31	0.183 A	1	0.01				0.134	2	0.02	31
TOTAL	5.315		0.83	4.880		0.79	4.700		0.88	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS E - ESTIMATED S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)		INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	SILT	CLAY	TYPE OF SAMPLER
JAN 05	10:15		0.175		1	1ORB																DH48
JAN 08	13:30	4.0	0.197		3	1ORB																DH48
JAN 15	12:35	2.0	0.190		2	1ORB												186				DH48
JAN 22	13:00	0.5	0.186		11	1ORB																DH48
JAN 30	12:10	2.0	0.190		4	1ORB																DH48
FEB 05	14:35	2.0	0.428		118	1ORB																DH48
FEB 12	12:50	5.0	0.220		1	1ORB												186				DH48
FEB 14	14:50	2.0	0.218		1	1ORB																DH48
FEB 20	16:25	5.0	0.204		2	1ORB												359				DH48
FEB 26	12:40	5.0	0.336		4	1ORB																DH48
MAR 06	15:45	3.0	0.220		2	1ORB																DH48
MAR 11	12:00	2.0	0.213		4	1ORB																DH48
MAR 17	12:35	2.0	6.58	E	3010	1ORB												177				DH48
MAR 17	16:00	2.0	4.88	E	2960	1ORB																DH48
MAR 24	13:50	5.5	0.427		11	1ORB																DH48
APR 01	15:00	7.0	0.308		6	1ORB												180				DH48
APR 04	14:30	7.5	0.258		4	1ORB																DH48
APR 08	17:00	7.0	0.340		6	1ORB																DH48
APR 20	13:00	7.0	0.622		8	1ORB												171				DH48
APR 23	12:40	8.0	0.573		5	1ORB																DH48
APR 24	15:20	8.0	0.581		4	1ORB																DH48
APR 29	13:05	7.5	0.158		2	1ORB																DH48
MAY 06	15:10	5.0	0.409		2	1ORB												189				DH48
MAY 13	18:58	10.0	0.340		3	1ORB																DH48
MAY 15	13:55	9.0	0.381		16	1ORB																DH48
MAY 21	12:00	10.0	0.340		3	1ORB												152				DH48
MAY 27	14:00	12.5	0.308		3	1ORB																DH48
JUN 08	17:20	13.0	0.250		8	1ORB																DH48
JUN 09	14:20	13.5	0.225		9	1ORB												170				DH48
JUN 14	08:15	13.0	0.235		3	1ORB																DH48
JUN 17	20:00	13.0	0.225		7	1ORB																DH48
JUN 18	13:30	11.5	0.264		8	1ORB																DH48
JUN 27	11:35	9.5	0.225		3	1ORB																DH48
JUL 04	19:20	13.0	0.227		6	1ORB																DH48
JUL 07	10:30	12.5	0.225		4	1ORB												179				DH48
JUL 21	10:45	11.0	0.227		4	1ORB																DH48
AUG 17	11:20	11.0	0.204		3	1ORB																DH48
AUG 21	09:30	11.0	0.204		3	1ORB																DH48
AUG 24	13:00	12.0	0.181		3	1ORB																DH48
AUG 28	08:35	10.3	0.204		3	1ORB																DH48
AUG 28	09:45	10.4	0.193		2	1ORB																DH48
AUG 31	11:04	12.4	0.182		1	1ORB												166				DH48
SEP 03	11:28	11.0	0.181		3	1ORB																DH48
SEP 05	10:45	10.0	0.181		2	1ORB																DH48
SEP 05	17:10	9.3	0.193		6	1ORB																DH48
SEP 08	09:30	9.0	0.197		1	1ORB																DH48
SEP 11	17:30	10.1	0.193		1	1ORB																DH48
SEP 12	09:30	9.5	0.183		3	1ORB																DH48
SEP 15	11:35	8.3	0.181		2	1ORB																DH48
SEP 18	11:30	8.0	0.204		5	1ORB																DH48
SEP 21	09:05	9.5	0.193		1	1ORB																DH48
SEP 27	11:45	12.0	0.181		3	1ORB												190				DH48
SEP 27	18:05	13.0	0.193		15	1ORB																DH48
OCT 03	12:45	8.5	0.181		2	1ORB																DH48
OCT 04	13:05	10.0	0.181		2	1ORB																DH48
OCT 12	07:45	8.0	0.177		1	1ORB																DH48
OCT 17	11:05	8.5	0.181		1	1ORB																DH48
OCT 23	08:15	8.5	0.181		1	1ORB												178				DH48
OCT 29	08:30	10.0	0.188		1	1ORB																DH48
NOV 03	09:30	5.0	0.182		11	1ORB																DH48
NOV 08	10:00	4.5	0.158		1	1ORB																DH48
NOV 11	11:30		0.158		1	1ORB																DH48
NOV 14	13:30	5.0	0.193		10	1ORB																DH48
NOV 15	11:50	5.0	0.181		2	1ORB																DH48
NOV 22	09:00	5.0	0.182		1	1ORB																DH48
NOV 25	15:00	4.0	0.144		1	1ORB																DH48
NOV 28	09:30	4.8	0.183		2	1ORB																DH48
NOV 30	08:05	5.7	0.173		5	1ORB												211				DH48
DEC 02	10:30	5.1	0.182		1	1ORB																DH48
DEC 08	09:00		0.144		1	1ORB																DH48
DEC 11	09:30	5.0	0.193		7	1ORB																DH48
DEC 13	08:15	8.0	0.172		1	1ORB												183				DH48
DEC 18	09:05	7.0	0.172		2	1ORB																DH48
DEC 21	15:35	2.0	0.182		1	1ORB																DH48
DEC 27	11:35	0.0	0.787		13	1ORB																DH48

NOTE : SINGLE VERTICAL LOCATED AT MIDSTREAM

DISCHARGE SYMBOL(S): E - ESTIMATED

PRINCE EDWARD ISLAND

NORTH BROOK NEAR WALL ROAD - STATION NO. 01CB005

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1971	JUL-DEC	M-S	226	AUG 16		1	JUL 27	*	16.8	AUG 16		37.3		---	---	---
1972	JAN-DEC	M-C	486	MAY 04		2	SEP 14		224	MAY 04	*	930	*	2.54	2.54	---
1973	JAN-DEC	M-C	153	APR 08		2	NOV 20		65.3	MAR 18		288		0.74	1.84	54.9
1974	JAN-DEC	B-C	782	NOV 28		1	MAY 07		44.2	NOV 28		187		0.51	1.26	50.9
1975	JAN-DEC	M-C	45	MAR 20		2	JAN 03		4.33	APR 20		55.5		0.16	0.99	53.6
1976	JAN-DEC	M-C	51	MAR 21		2	MAR 15		30.0	MAR 21		83.5		0.23	0.84	52.2
1977	JAN-DEC	M-C	84	APR 01		1	FEB 09		20.8	MAR 31		133		0.37	0.75	46.3
1978	JAN-DEC	M-C	54	APR 21		1	FEB 26		42.7	JAN 27		187		0.48	0.72	43.4
1979	JAN-DEC	M-C	705	APR 10		1	JAN 25		99.7	MAR 15		771		2.11	0.85	38.2
1980	JAN-DEC	M-C	320	APR 05		1	JAN 21		57.2	APR 05		194		0.43	0.84	34.4
1981	JAN-DEC	M-C	240	OCT 28		1	MAR 16		71.7	FEB 12		232		0.64	0.82	31.8
1982	JAN-DEC	M-C	84	APR 26		1	AUG 25		4.95	APR 28		71.8		0.20	0.78	31.7
1983	JAN-DEC	M-C	131	DEC 14		1	APR 01		22.2	MAR 20		82.5		0.23	0.72	31.1
1984	JAN-DEC	M-C	3 010	MAR 17	*	1	JAN 05		39.4	MAR 17		114		0.31	0.69	30.2

B - BOTH AUTOMATIC AND MANUAL SAMPLING M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

SMELT CREEK NEAR ELLERSLIE - STATION NO. 01CA004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)		SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1967	OCT-DEC	M-S	43	DEC 04		1	OCT 27		13.1	DEC 05		29.8		---	---	---
1968	JAN-DEC	M-C	38	MAR 30		1	AUG 14		17.3	MAR 30		123		0.34	0.34	---
1969	JAN-DEC	M-C	28	MAR 27		1	FEB 27		7.53	NOV 10		62.7		0.17	0.28	32.7
1970	JAN-DEC	M-C	30	MAY 27		1	JUN 20		8.01	OCT 05		89.8		0.24	0.25	19.7
1971	JAN-DEC	M-C	81	APR 14		0	SEP 18	*	55.7	APR 14	*	264		0.73	0.37	33.8
1972	JAN-DEC	M-C	78	APR 30		2	MAR 14		42.3	MAY 04		378	*	1.03	0.50	32.7
1973	FEB-OCT	# M-MS	158	OCT 23	*	58	APR 24			---		---		---	---	---

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION S - SEASONAL OPERATION MS - MISCELLANEOUS OPERATION

- PERIOD OF RECORD INCOMPLETE * - EXTREME FOR PERIOD OF RECORD

SOUTHWEST BROOK NEAR MIDDLETON - STATION NO. 01CB014

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLED CONCENTRATION MAXIMUM (mg/L)			MINIMUM (mg/L)			SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)			TOTAL FOR PERIOD (TONNES)		SUMMARY : APR-NOV MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1974	APR-NOV	M-S	573	NOV 28	*	1	OCT 03		108	NOV 28	*	818	*	2.54	2.54	---
1975	APR-NOV	M-S	87	NOV 14		0	AUG 28	*	17.3	APR 20		94.8		0.36	1.47	73.1

M - MANUAL SAMPLING

S - SEASONAL OPERATION

* - EXTREME FOR PERIOD OF RECORD

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1984

LOCATION: LAT 46 23 35 N LONG 63 39 35 W
DRAINAGE AREA: 45.6 km²
TYPE OF FLOW: NATURAL
TYPE OF GAUGE: RECORDING

TOTAL SUSPENDED SEDIMENT LOAD 2 430.11 TONNES FOR THE PERIOD JAN 01 TO DEC 31

REMARKS:

DAY	JAN DAILY DISCHARGE (m³/s)	JAN MEAN CONCENTRATION (mg/L)	JAN DAILY LOAD (t)	FEB DAILY DISCHARGE (m³/s)	FEB MEAN CONCENTRATION (mg/L)	FEB DAILY LOAD (t)	MAR DAILY DISCHARGE (m³/s)	MAR MEAN CONCENTRATION (mg/L)	MAR DAILY LOAD (t)	DAY
1	1.02	5	0.44	0.868	12	0.89	2.21	37 S	7.08	1
2	0.891	4	0.34	0.850	11	0.82	1.70	14	2.06	2
3	0.963	4 S	0.33	0.840	11	0.81	1.38	7	0.84	3
4	0.931	4	0.32	0.860	11	0.80	1.27	5	0.55	4
5	0.919	7 S	0.56	5.12	49	21.7	1.22	4	0.42	5
6	0.949	8	0.66	3.08	19	4.78	1.21	4	0.42	6
7	1.05	10	0.91	1.63	10	1.58	1.18	5	0.50	7
8	1.01	8	0.70	1.48	8	1.02	1.10	5 S	0.48	8
9	0.948	8	0.49	1.34	8	0.93	1.05	5	0.45	9
10	0.814	7	0.55	1.21	7	0.73	1.03	5	0.44	10
11	0.838	12 S	0.87	1.13	8	0.59	1.01	5	0.44	11
12	0.870 B	11	0.83	1.09	5	0.47	0.971	5	0.50	12
13	0.850 B	10	0.73	1.07	5	0.48	0.928	17	1.36	13
14	0.845	8	0.58	1.04	5 S	0.45	0.914	10	0.79	14
15	0.830	8	0.43	3.20	54	14.9	7.86	380 S	239	15
16	0.809	8	0.42	8.09	82 S	43.1	13.9	426 S	514	16
17	0.798 A	8	0.41	1.86	23 S	3.83	8.83	484	384	17
18	0.793 A	8	0.41	1.58	14	1.81	3.88	140	32.4	18
19	0.788	8	0.88	1.41	8	0.97	1.80	41 S	5.38	19
20	0.764	8	0.40	1.35	8 S	0.70	1.78	81	7.84	20
21	0.706	5	0.31	1.33	8 S	1.03	2.49	225	48.4	21
22	0.700 B	5	0.28	1.37	13	1.43	5.26	804 S	435	22
23	0.675 B	4	0.23	1.17	11	1.11	3.05	78	20.0	23
24	0.680 B	4	0.23	1.71	30 S	4.43	2.03	28 S	4.55	24
25	0.695 B	8	0.54	4.88	70	28.3	1.70	21	3.08	25
26	0.790 B	15 S	1.09	1.87	15	2.42	1.61	18	2.50	26
27	0.880 B	15	1.14	1.50	11 S	1.43	1.52	15 S	1.97	27
28	0.791	13 S	0.88	1.37	11	1.30	1.48	12	1.51	28
29	0.730	8	0.50	1.43	14	1.73	1.44	13	1.62	29
30	0.700	14 S	0.85				1.43	20 S	2.47	30
31	0.680	16	0.94				1.35	14	1.63	31
TOTAL	25.988		18.11	53.298		145.13	76.174		1 892.87	TOTAL

DAY	APR DAILY DISCHARGE (m³/s)	APR MEAN CONCENTRATION (mg/L)	APR DAILY LOAD (t)	MAY DAILY DISCHARGE (m³/s)	MAY MEAN CONCENTRATION (mg/L)	MAY DAILY LOAD (t)	JUN DAILY DISCHARGE (m³/s)	JUN MEAN CONCENTRATION (mg/L)	JUN DAILY LOAD (t)	DAY
1	1.34	15	1.74	2.14	10	1.85	1.38	2	0.23	1
2	1.40	22	2.76	2.05	9	1.59	1.80	12	1.88	2
3	1.44	28	3.11	1.82	8	1.33	1.63	10	1.41	3
4	1.38	21	2.50	1.88	7	1.13	1.37	8	0.89	4
5	1.30	20	2.28	1.88	14	2.41	1.31	4	0.45	5
6	1.88	36	5.45	1.85	8	0.86	1.30	3	0.34	6
7	1.80	22	3.42	1.78	5	0.77	1.28	2 S	0.22	7
8	1.47	17	2.18	1.88	5	0.71	1.27	2	0.22	8
9	1.31	11	1.28	1.78	10	1.62	1.28	1	0.11	9
10	1.40	17	2.08	1.84	6	0.89	1.23	2	0.21	10
11	1.80	15	2.07	1.84	8	0.80	1.24	4 S	0.43	11
12	1.81	13	1.79	1.48	5	0.77	1.27	11 S	1.21	12
13	1.82	12	1.88	1.87	8	1.09	1.21	2	0.21	13
14	1.89	20	2.75	1.83	29	4.88	1.18	2	0.21	14
15	2.10	37	6.71	2.23	68	18.5	1.83	38	5.07	15
16	2.70	48	11.2	1.70	50 S	7.34	1.20	9 S	0.93	16
17	9.60	272	230	1.88	25	3.43	1.12	8	0.77	17
18	4.24	81	19.1	1.83	29	3.84	1.08	8	0.75	18
19	3.07	37 S	7.18	1.88	26 S	4.18	1.34	78 S	8.15	19
20	2.81	37	8.79	1.85	8	1.38	1.33	30	3.45	20
21	2.81	17	4.13	1.88	5	0.87	1.14	10 S	0.98	21
22	2.59	18	4.03	1.81	8	0.88	1.82	138	19.0	22
23	2.56	19	4.20	1.48	4	0.81	1.42	28	3.19	23
24	2.43	14	2.84	1.48	4	0.80	1.28	8	0.88	24
25	3.06	38	10.0	1.45	4	0.80	1.17	8	0.81	25
26	3.81	20	4.88	1.41	4	0.48	1.18	4 S	0.40	26
27	3.48	14	3.81	1.38	5	0.60	1.17	4	0.40	27
28	3.32	13	2.81	1.32	4 S	0.48	1.18	4	0.40	28
29	3.20	11	2.08	1.28	8 S	0.88	1.14	4	0.39	29
30	2.15	10	1.86	1.47	12	1.83	1.18	8 S	0.59	30
31				1.32	1 S	0.11				31
TOTAL	71.08		385.51	51.35		85.87	39.88		84.44	TOTAL

A - MANUAL GAUGE B - ICE CONDITIONS S - SAMPLE(S) COLLECTED THIS DAY

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

SUSPENDED SEDIMENT FOR 1984

DAY	JUL DAILY DISCHARGE (m^3/s)	JUL MEAN CONCENTRATION (mg/L)	JUL DAILY LOAD (t)	AUG DAILY DISCHARGE (m^3/s)	AUG MEAN CONCENTRATION (mg/L)	AUG DAILY LOAD (t)	SEP DAILY DISCHARGE (m^3/s)	SEP MEAN CONCENTRATION (mg/L)	SEP DAILY LOAD (t)	DAY
1	1.11	5	0.43	0.384	4	0.24	0.662	4	0.23	1
2	1.08	4	0.38	0.377	3	0.18	0.650	4	0.22	2
3	1.07	4	0.37	0.664	3	0.17	0.648	4 S	0.23	3
4	1.05	4	0.36	0.662	4	0.22	0.632	4	0.22	4
5	1.08	9	0.84	0.644	4	0.22	0.652	4	0.23	5
6	1.18	15 S	1.80	0.628	3	0.18	0.641	4	0.22	6
7	1.08	9	0.82	0.624	3	0.18	0.618	4	0.21	7
8	1.88	85	15.5	0.760	9	0.58	0.602	3	0.19	8
9	1.14	16	1.77	0.633	4 S	0.22	0.602	1	0.05	9
10	0.987	7	0.60	0.626	3	0.18	0.591	2	0.10	10
11	0.951	5	0.41	0.629	3 S	0.18	0.592	3	0.15	11
12	0.970	8 S	0.78	1.00	58 S	5.01	0.618	3 S	0.16	12
13	0.942	7	0.57	0.672	8 S	0.52	0.580	3	0.15	13
14	0.827	7	0.50	2.05	121 S	21.4	0.606	3	0.16	14
15	0.885	6 S	0.46	0.882	17	1.27	0.609	3	0.16	15
16	0.886	5	0.37	0.932	23	1.85	0.957	14	1.16	16
17	0.872	4	0.30	0.740	12	0.77	0.875	4 S	0.23	17
18	0.834	2	0.14	0.894	11	0.86	0.821	3	0.16	18
19	0.851	3 S	0.22	0.885	12 S	0.71	0.815	1	0.05	19
20	0.808	4	0.28	0.882	8	0.38	0.819	1 S	0.06	20
21	0.799	5	0.35	0.781	8 S	0.53	0.825	2 S	0.11	21
22	0.771	5	0.33	0.714	5	0.31	0.808	2	0.10	22
23	0.766	5	0.40	0.871	4	0.23	0.897	2	0.10	23
24	0.772	5 S	0.33	0.898	5	0.38	0.887	2	0.10	24
25	0.750	5	0.39	0.739	6 S	0.38	0.885	1	0.05	25
26	0.731	5 S	0.32	0.870	3	0.17	0.825	3	0.18	26
27	0.721	4 S	0.25	0.857	4	0.23	0.829	3	0.18	27
28	0.785	4	0.25	0.864	4	0.22	0.803	2	0.10	28
29	0.727	4	0.25	0.864	3	0.17	0.889	1	0.05	29
30	0.701	4	0.24	0.849	4	0.22	0.861	1	0.09	30
31	0.695	4	0.24	0.849	4	0.22				31
TOTAL	29.753		30.04	23.011		38.05	18.834		5.20	TOTAL

DAY	OCT DAILY DISCHARGE (m^3/s)	OCT MEAN CONCENTRATION (mg/L)	OCT DAILY LOAD (t)	NOV DAILY DISCHARGE (m^3/s)	NOV MEAN CONCENTRATION (mg/L)	NOV DAILY LOAD (t)	DEC DAILY DISCHARGE (m^3/s)	DEC MEAN CONCENTRATION (mg/L)	DEC DAILY LOAD (t)	DAY
1	0.587	1	0.05	0.500	2	0.09	0.486	2	0.08	1
2	0.591	2 S	0.10	0.489	1	0.04	0.477	2	0.08	2
3	0.583	4	0.26	0.511	2	0.08	0.487	2	0.08	3
4	0.580	2	0.11	0.485	2	0.08	0.487	2 S	0.08	4
5	0.553	2	0.11	0.487	2	0.08	0.484	3	0.08	5
6	0.631	3	0.16	0.488	1	0.04	0.484	3	0.08	6
7	0.605	3	0.16	0.490	1	0.04	0.531	1	0.05	7
8	0.585	2	0.10	0.474	1 S	0.04	0.480	1	0.04	8
9	0.586	3 S	0.15	0.488	1	0.04	0.487	1	0.04	9
10	0.582	3	0.15	0.473	1	0.04	0.464	3 S	0.12	10
11	0.578	3	0.15	0.482	1	0.04	0.785	81 S	4.14	11
12	0.583	3	0.15	0.480	1	0.04	0.583	8	0.26	12
13	0.586	3	0.15	0.480	0	0	0.568	8	0.24	13
14	0.570	3	0.15	0.781	14	0.92	0.548	8	0.24	14
15	0.584	3	0.15	0.882	5 S	0.28	0.510	8	0.22	15
16	0.555	3 S	0.14	0.574	4	0.20	0.502 B	8	0.28	16
17	0.552	3	0.14	0.547	3	0.14	0.522	3	0.09	17
18	0.548	2	0.09	0.533	3	0.14	0.520 B	4 S	0.18	18
19	0.545	1 S	0.05	0.518	3	0.13	0.526	3	0.14	19
20	0.566	2	0.10	0.519	3	0.13	0.531	3	0.14	20
21	0.558	2	0.10	0.521	2	0.09	0.510	4	0.18	21
22	0.550	2 S	0.10	0.498	2	0.09	0.508	3	0.13	22
23	0.558	1 S	0.05	0.494	3	0.13	0.518	4	0.18	23
24	0.550	1	0.05	0.508	2	0.09	0.508	4	0.17	24
25	0.548	1	0.05	0.488	3	0.09	0.490 B	3	0.13	25
26	0.534	0	0	0.485	2	0.08	0.448 B	6	0.23	26
27	0.527	1	0.05	0.485	2	0.08	0.525 B	10	0.45	27
28	0.534	1	0.05	0.484	2	0.08	0.514	4	0.18	28
29	0.533	1 S	0.05	0.472	2	0.08	0.479	3	0.12	29
30	0.515	1	0.04	0.508	2	0.08	0.481	4	0.16	30
31	0.513	1	0.04				0.460	4	0.15	31
TOTAL	17.700		3.18	15.382		3.81	15.703		8.70	TOTAL

B - ICE CONDITIONS

S - SAMPLE(S) COLLECTED THIS DAY

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

INSTANTANEOUS SUSPENDED SEDIMENT FOR 1984

DATE	TIME	WATER TEMP. (°C)	INSTANT. DISCHARGE (m³/s)	INSTANT. CONCENT. (mg/L)	SINGLE SAMPLING VERTICAL (m)	PERCENT FINER THAN INDICATED SIZE, IN MILLIMETRES .002	.004	.008	.016	.031	.062	.125	.250	.500	1.00	2.00	DISSOLVED SOLIDS (mg/L)	PERCENT SAND	PERCENT SILT	PERCENT CLAY	TYPE OF SAMPLER
JAN 03	17:00	1.0	0.907	5	10LB																DH48
JAN 05	11:10	1.0	0.932	6	10LB												170				DH48
JAN 11	14:40	2.0	0.932	13	10LB																DH48
JAN 28	16:00	1.0	0.937	21	10LB																DH48
JAN 28	14:00		0.937	5	10LB																DH48
JAN 30	17:00	1.0	0.715	16	10LB												189				DH48
FEB 14	13:45	1.5	1.02	5	10LB																DH48
FEB 14	17:00	1.5	1.02	6	10LB												178				DH48
FEB 15	14:15	1.0	7.19	86	10LB																DH48
FEB 17	14:30	1.0	1.97	25	10LB																DH48
FEB 20	11:30	1.0	1.31	6	10LB												84				DH48
FEB 21	10:30	2.0	1.32	8	10LB																DH48
FEB 24	13:45		1.56	11	10LB																DH48
FEB 27	09:15	1.5	1.52	11	10LB												180				DH48
MAR 01	10:10	1.5	1.87	19	10LB																DH48
MAR 08	12:00	1.0	1.08	5	10LB																DH48
MAR 15	15:30	2.0	11.0	481	10LB																DH48
MAR 15	16:00	2.0	11.9	472	10LB												181				DH48
MAR 15	09:20	1.5	1.83	42	10LB																DH48
MAR 22	13:30	2.5	7.22	1390	10LB																DH48
MAR 24	14:00		1.96	27	10LB												138				DH48
MAR 27	10:35		1.52	15	10LB																DH48
MAR 30	12:00		1.40	22	10LB																DH48
APR 19	11:00	3.0	3.00	27	10LB												138				DH48
MAY 16	08:45	8.0	1.72	58	10LB																DH48
MAY 19	11:00		2.29	23	10LB																DH48
MAY 28	08:00	10.0	1.32	4	10LB																DH48
MAY 29	20:00	10.0	1.25	5	10LB												127				DH48
MAY 31	20:00	10.0	1.26	1	10LB																DH48
JUN 07	20:00	13.5	1.27	2	10LB																DH48
JUN 11	20:00	13.5	1.21	2	10LB																DH48
JUN 12	12:25	13.5	1.24	10	10LB																DH48
JUN 12	19:30	13.5	1.20	2	10LB																DH48
JUN 18	20:00	13.0	1.15	10	10LB																DH48
JUN 19	09:30	11.0	1.14	15	10LB																DH48
JUN 19	19:00	11.0	1.56	186	10LB																DH48
JUN 21	18:00		1.65	185	10LB												142				DH48
JUN 26	20:00		1.17	4	10LB																DH48
JUN 30	18:00	14.0	1.12	15	10LB																DH48
JUL 06	19:00	13.0	1.11	13	10LB																DH48
JUL 12	18:00	12.0	0.988	13	10LB																DH48
JUL 16	15:00	13.0	0.882	7	10LB												143				DH48
JUL 19	09:00	12.0	0.882	3	10LB																DH48
JUL 24	09:00		0.798	5	10LB																DH48
JUL 26	10:45	14.0	0.725	5	10LB																DH48
JUL 27	09:00	14.0	1.03	3	10LB																DH48
AUG 09	09:30		0.840	4	10LB												148				DH48
AUG 11	11:00		0.638	3	10LB																DH48
AUG 12	18:00		0.761	24	10LB																DH48
AUG 13	15:00		0.865	7	10LB																DH48
AUG 14	14:00		3.85	823	10LB																DH48
AUG 19	18:00		0.885	14	10LB																DH48
AUG 22	15:00		0.885	4	10LB												83				DH48
AUG 25	14:00		0.890	8	10LB																DH48
SEP 03	13:00		0.840	4	10LB																DH48
SEP 12	13:00		0.816	2	10LB																DH48
SEP 17	10:00		0.880	4	10LB												148				DH48
SEP 20	12:00		0.816	1	10LB																DH48
SEP 21	09:00		0.831	1	10LB																DH48
OCT 02	10:00	11.0	0.581	1	10LB																DH48
OCT 09	18:00		0.581	3	10LB																DH48
OCT 16	18:00		0.567	3	10LB																DH48
OCT 19	18:00		0.567	1	10LB												155				DH48
OCT 22	08:30		0.562	2	10LB																DH48
OCT 23	10:30		0.567	1	10LB																DH48
OCT 29	10:30	6.5	0.542	1	10LB																DH48
NOV 08	14:50	6.0	0.493	1	10LB												166				DH48
NOV 15	19:00		0.591	4	10LB																DH48
DEC 04	12:45	3.5	0.468	1	10LB																DH48
DEC 10	11:00		0.459	2	10LB																DH48
DEC 11	16:00		1.33	129	10LB																DH48
DEC 18	12:15	3.5	0.513	2	10LB												138				DH48
																					DH48

NOTE : SINGLE VERTICAL LOCATED AT 10LB

PRINCE EDWARD ISLAND

WILMOT RIVER NEAR WILMOT VALLEY - STATION NO. 01CB004

HISTORICAL SEDIMENT DATA SUMMARY

YEAR	PERIOD OF RECORD	TYPE OF OPERATION	SAMPLES	CONCENTRATION MAXIMUM (mg/L)		CONCENTRATION MINIMUM (mg/L)		SUSPENDED SEDIMENT LOAD MAXIMUM DAILY (TONNES)		TOTAL FOR PERIOD (TONNES)	SUMMARY : JAN-DEC MEAN LOAD (TONNES)	HISTORICAL MEAN LOAD (TONNES)	STANDARD ERROR OF MEAN %
1972	JAN-DEC	M-C		378	APR 30	1	AUG 26 *	433	MAR 18	3 780	10.3	10.3	---
1973	JAN-DEC	M-C		339	JAN 01	3	JUN 03	323	FEB 03	1 880	5.18	7.73	33.2
1974	JAN-DEC	M-C		852	MAR 24	3	MAY 24	279	MAR 24	1 600	4.38	6.81	28.1
1975	JAN-DEC	M-C		197	APR 30	2	SEP 20	165	APR 20	824	1.71	5.38	33.3
1976	JAN-DEC	M-C		130	AUG 30	8	MAY 11	121	MAR 21	1 150	3.14	4.84	29.8
1977	JAN-DEC	M-C		48	OCT 21	3	MAY 18	177	APR 08	1 280	3.46	4.69	28.0
1978	JAN-DEC	M-C		101	JAN 15	1	MAY 30	138	JAN 27	1 010	2.78	4.42	34.1
1979	JAN-DEC	M-C		843	APR 10	1	MAY 23	345	MAR 15	4 120 *	11.3	5.26	33.8
1980	JAN-DEC	M-C		358	MAR 18	2	JUN 03	298	APR 05	1 380	3.78	5.11	22.0
1981	JAN-DEC	M-C		695	OCT 28	2	APR 21	404	FEB 12	1 900	5.22	5.12	18.7
1982	JAN-DEC	M-C		287	APR 01	2	NOV 18	144	APR 01	735	2.02	4.84	18.7
1983	JAN-DEC	M-C		684	APR 05	1	NOV 02	538	MAR 20 *	1 950	5.34	4.88	17.9
1984	JAN-DEC	M-C	1	390	MAR 22 *	1	MAY 31	514	MAR 18	2 420	6.61	5.01	16.2

M - MANUAL SAMPLING

C - CONTINUOUS OPERATION

* - EXTREME FOR PERIOD OF RECORD

STA. NO.	NAME	PAGE
01AF008	BLACK BROOK NEAR ST-ANDRE-DE-MADAWASKA	1
01AF007	GRAND RIVER AT VIOLETTE BRIDGE	10
01AJ006	HOLMES BROOK AT MOOSE MOUNTAIN	13
01AJ007	HOLMES BROOK NEAR HOLMESVILLE	13
01AJ010	BECAGUIMEC STREAM AT COLDSTREAM	1
01AK004	SAINT JOHN RIVER BELOW MACTAQUAC	23
01AK005	NORTH NASHWAAKSIS STREAM NEAR ROYAL ROAD	21
01AL004	NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN	10
01AP004	KENNEBECASIS RIVER AT APOHAQUI	14
01AR005	DENNIS STREAM NEAR ST. STEPHEN	6
01BD001	SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE	24
01BD002	RENOUS RIVER AT MCGRAW BROOK	23
01BD003	BARNABY RIVER BELOW SEMIWAGAN RIVER	1
01BP001	LITTLE SOUTHWEST MIRAMICHI RIVER AT LYTTLETON	18
01BQ001	NORTHWEST MIRAMICHI RIVER AT TROUT BROOK	22
01BS001	COAL BRANCH RIVER AT BEERSVILLE	2
01BU002	PETITCODIAC RIVER NEAR PETITCODIAC	22
01BU004	PALMERS CREEK NEAR DORCHESTER	22
01CA004	SMELT CREEK NEAR ELLERSLIE	69
01CB002	DUNK RIVER AT WALL ROAD	83
01CB004	WILMOT RIVER NEAR WILMOT VALLEY	70
01CB005	NORTH BROOK NEAR WALL ROAD	88
01CB006	EMERALD BROOK NEAR EMERALD	85
01CB007	EAST BRANCH DUNK RIVER AT ELLIOTT	84
01CB008	DUNK RIVER NEAR BREADALBANE	84
01CB009	DUNK RIVER AT MCKENNA'S BRIDGE	83
01CB010	DAMES BROOK NEAR NEWTON	83
01CB011	DUNK RIVER ABOVE SCALES POND	83
01CB012	ELMO RIVER NEAR SCALES POND	84
01CB013	DUNK RIVER BELOW SCALES POND	84
01CB014	SOUTHWEST BROOK NEAR MIDDLETON	89
01CE003	BRUDENELL RIVER NEAR BRUDENELL	82
01CE004	BRUDENELL RIVER AT BRUDENELL	59
01DC005	ANNAPOLIS RIVER AT WILMOT	41
01DD004	SHARPE BROOK AT LLOYDS	54
01DG018	PEMBROKE RIVER AT GLENDERVIE	84
01DH002	SALMON RIVER AT MURRAY	87
01DH003	FRASER BROOK NEAR ARCHIBALD	45
01DL001	KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD	46
01DP004	MIDDLE RIVER AT ROCKLIN	50
01FB005	APRIL BROOK AT GILLISDALE	44
01FJ001	SALMON RIVER AT SALMON RIVER BRIDGE	87
02YD002	NORTHEAST BROOK NEAR ROBDICKTON	33
02YJ001	HARRYS RIVER BELOW HIGHWAY BRIDGE	27
02ZA002	HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY	30
02ZM005	NORTHEAST POND RIVER AT NORTHEAST POND	38
02ZM006	WATERFORD RIVER AT KILBRIDE	37

NAME	STA. NO.	PAGE
ANNAPOLIS RIVER AT WILMOT		
APRIL BROOK AT GILLISDALE	01DC005	41
	01FB005	44
BARNABY RIVER BELOW SEMIWAGAN RIVER		
BECAGUIMEC STREAM AT COLDSTREAM	01BB003	1
BLACK BROOK NEAR ST-ANDRE-DE-MADAWASKA	01AJ010	1
BRUDENELL RIVER AT BRUDENELL	01AF006	1
BRUDENELL RIVER NEAR BRUDENELL	01CE004	59
	01CE003	62
COAL BRANCH RIVER AT BEERSVILLE	01BS001	2
DAMES BROOK NEAR NEWTON		
DENNIS STREAM NEAR ST. STEPHEN	01CB010	63
DUNK RIVER ABOVE SCALES POND	01AR006	6
DUNK RIVER AT MCKENNA'S BRIDGE	01CB011	63
DUNK RIVER AT WALL ROAD	01CB009	63
DUNK RIVER BELOW SCALES POND	01CB002	63
DUNK RIVER NEAR BREADALBANE	01CB013	64
	01CB008	64
EAST BRANCH DUNK RIVER AT ELLIOTT		
ELMO RIVER NEAR SCALES POND	01CB007	64
EMERALD BROOK NEAR EMERALD	01CB012	64
	01CB006	65
FRASER BROOK NEAR ARCHIBALD	01DM003	45
GRAND RIVER AT VIOLETTE BRIDGE	01AF007	10
HARRYS RIVER BELOW HIGHWAY BRIDGE		
HIGHLANDS RIVER AT TRANS-CANADA HIGHWAY	02YJ001	27
HOLMES BROOK AT MOOSE MOUNTAIN	02ZA002	30
HOLMES BROOK NEAR HOLMESVILLE	01AJ006	12
	01AJ007	13
KELLEY RIVER (MILL CREEK) AT EIGHT MILE FORD	01DL001	46
KENNEBECASIS RIVER AT APOHAQUI	01AP004	14
LITTLE SOUTHWEST MIRAMICHI RIVER AT LYTTLETON	01BP001	18
MIDDLE RIVER AT ROCKLIN	01DP004	50
NARROWS MOUNTAIN BROOK NEAR NARROWS MOUNTAIN		
NORTH BROOK NEAR WALL ROAD	01AL004	18
NORTH NASHWAAKSIS STREAM NEAR ROYAL ROAD	01CB005	66
NORTHEAST BROOK NEAR RODDICKTON	01AK005	21
NORTHEAST POND RIVER AT NORTHEAST POND	02YD002	33
NORTHWEST MIRAMICHI RIVER AT TROUT BROOK	02ZM006	36
	01BO001	22
PALMERS CREEK NEAR DORCHESTER		
PEMBROKE RIVER AT GLENDERVIE	01BU004	22
PETITCODIAC RIVER NEAR PETITCODIAC	01DG018	54
	01BU002	22
RENOUS RIVER AT MCGRAW BROOK	01BO002	23
SAINT JOHN RIVER BELOW MACTAQUAC		
SALMON RIVER AT MURRAY	01AK004	23
SALMON RIVER AT SALMON RIVER BRIDGE	01DH002	57
SHARPE BROOK AT LLOYDS	01FJ001	57
SMELT CREEK NEAR ELLERSLIE	01DD004	56
SOUTHWEST BROOK NEAR MIDDLETON	01CA004	69
SOUTHWEST MIRAMICHI RIVER AT BLACKVILLE	01CB014	69
	01BO001	24
WATERFORD RIVER AT KILBRIDE		
WILMOT RIVER NEAR WILMOT VALLEY	02ZM008	37
	01CB004	70